e Itlining Immal COMMERCIAL

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper, and for Transmission Abroad.]

No. 2090.-Vol. XLV.

1875.

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LONDON, SATURDAY, SEPTEMBER 11, 1875.

SUPPLEMENT. SPRICE SIXPENCE. PER ANNUM, BY POST, £1 4s.

M. JAMES H. CROFTS, STOCK AND SHARE BROKER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. Established 1842.

BURINESS transacted in all descriptions of MINING Stocks and Shares (British and Foreign), Consols, Banks, Bonds (Foreign and Colonial), Railways, Miscellagons, Insurance, Assurance, Telegraph, Shipping, Canal, Gas, Water, and Bongs and Colonial and Co

December 1. Section 1. Section 1. Shipping, Canal, Cas, Water, and Dock Shares.

Business negociated in Stocks and Shares not having a general market value. Business in all Colliers and Iron Shares, and in the principal Wagon and Manuacturing Companies of the North of England and Scotland.

M. J. H. Chorts, having now established Corresponding Acencies in all the Chief Towns of the United Kingdom, is prepared to deal in the various Local Steels and Shares at close market prices.

OUTON SPINNING SHARES Bought and Sold, including those of Oldham, Bury, Reywood, Darwen, Accington, and neighbouring districts. This description of security can be purchased to pay the investor very fair interest upon outlay.

Accounts opened for the Fortnightly Settlement.

Monthly and Daily Price Lists issued.

Bankers: City Bank, London; South Cornwall Bank, St. Austell.

Bankers: City Bank, Johdon, South Cornwal Bank, St. Austein.

88: 35 Bampfylde; 10 Blison, £10; 50 Chapel House, £3 16s, 3d.; 50 Cardiff and Branses, £3 12s, 6d.; 20 Cedar Creek, 15s, 6d.; 5 Cape Copper, £34; 15 Colorado, £1 15s, 29 Chontales, £2s, 6d.; 10 Chicago; £5 Don Pedro, 13s.; 10 Devon Concell, £3 2s, 6d. prem.; 15 Emma, £1 12s, 6d.; 20 Eberhardt, £3; 25 East Van, 7th 4d; 10 East Caradon, £1 12s, 6d.; 30 Flagstaff, £1 7s, 6d.; 40 Frontino, 22s, 6d.; 36 6d; 100 Gold Run, 16s, 3d.; 80 Javali; 20 Langdale Chemical, £5 2s, 6d.; 10 Last Chance, £1 2s, 6d.; 15 Ladywell, £2 18s, 3d.; 20 Marke Valley, £3; 40 Old Treburgett, 4s, 9d.; 100 Positive Assurance; 25 Pateley Bridge; 20 Parys Mountain, 12s, 6d.; 10 Zennerley; 40 Penstruthal, 12s.; 50 Plynlimmon, 7s.; 10 Richmond, £5 8s.; 20 Thorp's Gawber, £5 10s.; 20 Van Consols, £2. N.B.—Buyer of Positive Assurance Shares.

Shares sold for forward delivery (one or two months) on deposit of 20 per sees on hand in all the leading TIN, COPPER, and LEAD Shares.

M.R. W. H. BUMPUS, STOCK AND SHARE BROKER,

44. THREADNEEDLE STREET, LONDON, E.C.,
Transacts business in MINING and COLLIERY Shares of every description.
English and Foreign Stocks, Colonial Government Bonds, Railways, Banks, and
Miscelaneous Shares, and all Securities dealt in on the London Stock Exchange,
for INVESTMENT or SPECULATION.

Purchases and Sales negociated in Unmarketable Stocks and Shares.
Speculative Accounts opened for the Fortnightly Settlement.
References given and required when necessary.

A Stock and Share List forwarded to bona fide Investors free on application.
Bankers: The National Provincial Bank of England, E.C.

SPECIAL BUSINESS in the undermentioned, at close market prices:

Asheton. Emma (Silver). Forman Gravels.

Bog. Flagstaff. Riehmond.

Birdseye Creek. Frontino. South Condurrow.

Care Brea. Gold Run. Sweetland Creek.

Cape Copper. Javall. St. Patrick.

Chapel House Colliery. Marke Valley. Tincroft.

Chapel House Colliery. Pennerley. Yan. Bog.
Birdseye Creek.
Carn Brea.
Cape Copper.
Cathedral (Copper).
Chapel House Colliery.
Chicago (Silver).
Dolcoath. Sweetland Creek. Bt. Patrick. Tankerville. Tincroft. Van. Pennerley.
Penstruthal.
Pateley Bridge.
Port Phillip. Van. Van Consols. West Chiverton. West Tankerville. Wheal Uny.

IMPORTANT.—Intending investors should lose no time in securing shares in well selected mines at the low quotations now ruling, as an early and substantial advance may be confidently relied upon. Provided proper discrimination is excessed in the selection, there are, at present few, if any, other securities in the market which offer such a favourable field for investors, and considering the extremely low prices of the majority of shares in sound dividend and progressive mines, anyone investing now has the advantage of a minimum of risk, and will in all probability be enabled to realise handsome profits within a short period.

W.H.B. will be happy to furnish, ou application, a list of shares which are likely to have an early rise in market value.

WILLIAM HENRY BUMPUS, SWORN BROKER.

OFFICES-44, THREADNEEDLE STREET, LONDON, E.C.

MESSES. PYNE AND ASHMEAD,
CITY MINING AGENTS,
LONDON MANAGEMENT OF COMPANIES UNDERTAKEN.
ACCOUNTS AUDITED, LIQUIDATIONS CONDUCTED.
6, BISHOPSGATE STREET WITHOUT, LONDON, E.C.

FERDINAND R. KIRK, STOCKBROKER, Comeols, Foreign Bonds, Railways, and every security quoted on 'Change bought and sold. Bankers: London and Westminster, and City Bank.

Clients giving the usual "cover" can open accounts for the fortnightly settlement. Coupons collected and drafts cashed free of charge. References given when necessary in most of the leading towns of the United Kingdom. Commission on Railways 5s. per cent.

SPECIAL BUSINESS in Glaisdale Quarry, Alltami Colliery, Eberhardt, Capeper, Cardiff, and Chapel House.

M. W. MARLBOROUGH, STOCK AND SHARE DEALER, 29, BISHOPSGATE STREET, LONDON, E.C. (Established 19 Years), an sell the following SHARES, at prices annexed:—50 Asheton, 26s.

50 Asheton, 26s.

50 Asheton, 26s.

50 Figstaff, £1 7s.

50 Frontino, 21s.

50 Figstaff, £1 7s.

50 Frontino, 21s.

50 Figstaff, £1 7s.

60 Prince of Wales, 3s 9d.

50 Flagstaff, £1 7s.

60 Prince of Wales, 3s 9d.

80 Flagstaff, £1 7s.

60 Prince of Wales, 3s 9d.

80 Flagstaff, £2 1 7s.

60 Prince of Wales, 3s 9d.

80 Flagstaff, £2 1 7s.

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80 Flagstaff, £2 1 7s.

60 Prince of Wales, 3s 9d.

80 Flagstaff, £2 1 7s.

60 Prince of Wales, 3s 9d.

80 Flagstaff, £2 1 7s.

80 Plynlummon, 6s. 9d.

80 Flynlummon, 6s. 9d.

80 Flynlummon, 6s. 9d.

80 Flynlummon, £10.

80 Sewetland, £3 2s.

40 So. Ro. Grav., 11s. 6d.

80 Ewetland, £3 2s.

40 So. Ro. Grav., 11s. 6d.

80 Flynlummon, £10.

81 Sewetland, £3 2s.

40 So. Ro. Grav., 11s. 6d.

80 Flynlummon, £10.

81 Sewetland, £3 2s.

40 So. Ro. Grav., 11s. 6d.

80 Flynlummon, £10.

81 Sewetland, £3 2s.

40 So. Ro. Grav., 11s. 6d.

80 Flynlummon, £10.

81 Sewetland, £3 2s.

80 Pennerley, £1 13s.

80 Pennerley, £1 13s.

80 Pennerley, £1 13s.

80 Port Phillip, 15s.

70 Penstruthal, 10s. 3d.

JOHN RISLEY (SWORN), STOCK AND SHARE BROKER, 77, CORNHILL, LONDON.

Turkish Six Per Cents. of 1854, 1858, 1862, 1865, 1871, and 1873 specially recom-unded : also Wheal Grenville, Treleigh Wood, Parys Mountain, Wheal Peevor, ad Combor share.

Business transacted at the following rates of commission:—Foreign Stocks, 1/2 per earl; and Mining Shares of £4 each and upwards, 11/2 per cent.; under £4, 1s.

MESSES. ENDEAN AND CO., STOCK AND SHARE DEALERS, 85, GRACECHURCH STREET, LONDON, E.C. Government and every negociable Stocks dealt in for cash or account. Orders and telegrams punctually attended to.

M. THOMAS THOMPSON, JUN., 1, PALMERSTON BUILDINGS, BISHOPSGATE STREET, LONDON, E.C. Some valuable hints as to the purchase of mining shares will be found in Mr. Thompson's "Investment Circular" for Sept. now ready, post free, price 6d.

NVESTMENTS IN STOCKS AND SHARES. BRITISH and FOREIGN STOCKS and SHARES BOUGHT and SOLD.

List of Prices and other information sent on application. Bankers: The Alliance Bank (Limited), London. Mr. P. WATSON, 79, OLD BROAD STREET, LONDON, E.C. (Close to Stock Exchange.) FINANCIAL OPERATIONS NEGOCIATED.

MR. ALFRED E. COOKE, STOCK AND SHARE DEALER, 76, OLD BROAD STREET, LONDON.
(Established 1853.)

Mr. COOKE can Sell the following Shares, and guarantees delivery, free of com-

| 100 Positive. | 100 Positive

Shares having no quotations affixed may be had at lowest market prices. Business transacted in nearly all Coal, Iron, Manufacturing, and Miscella

TIN MINE FOR SALE, with 48 heads of stamps, and all other requisite machinery, on most advantageous terms.

Now ready, Mr. COOKE'S Monthly Circular, with valuable tabu-lated form of investments; most useful for reference. Send address, with stamp.

MR. T. E. W. THOMAS, SWORN SHARE BROKER, 8, GREAT WINCHESTER STREET BUILDINGS, E.O. Established 1857.

The following are the latest prices at which business could be done. Where the

	Sellers	Ruyons	Rollage
14	13/	Port Phillip 13s 9d	15a
		Prince of Wales 40	68.
46	47	Pichmond P 07/	£ 101/6
93/	. 4	Pomon Granale	
		Ct. Detriels	
		St. Patrick 1	11/4
40		Bouth Carn Brea 13%	134
98		South Condurrow 5	514
814	. 81/2		
			12s.
	. 7%		21/4
1416	. 151/2	Sweetland Creek 27/2	
114	. 136	Tankerville 1014	11
		Tincroft 23	
12s.6d.	. 15s.		
144	160		
23/	974		
23/	. 478		
11- 64	10-64		
. 0 .		Wheat Crebor 3	
1 1%.	198	Wheat Jane 8	
, 68	78.	Wheat Uny 21/3	3
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R. WILLIAM WAR (LATE WARD AND LITTLEWOOD), OROSBY HOUSE, 95, BISHOPSGATE STREET WITHIN, E.C., $\mathbf{M}^{\mathbf{R}}$.

STOCK AND SHARE BROKER.

M. R. E. J. BARTLETT, STOCK AND SHARE DEALER, No. 30, GREAT ST. HELEN'S, LONDON, E.C. (Established 10 years), has SPECIAL BUSINESS in South Condurrow, Prince Patrick, Wheal Kitty, Penhalls, and Chapel House Shares at close prices.

G. E. SIMPSON, STOCK AND SHARE DEALER, 6, GREAT WINCHESTER STREET BUILDINGS, LONDON, E.C.

MESSRS. A. ENDEAN, FISHER, AND CO., STOCK AND SHARE DEALERS, 3, LOMBARD COURT, LOMBARD STREET, E.C. Bankers: London and Westminster, Lothbury.

MESSES. W. J. TALLENTIRE AND CO.,
STOCK AND SHARE BROKERS.
20, CHANGE ALLEY, CORNHILL, LONDON, E.C., transact business in
Stock Exchange Securities and Mining Shares of every description.
A Selected List of Safe Investments forwarded to intending investors post free
upon application. Fourteen years' experience.

MR. W. TREGELLAS, 122, BISHOPSGATE STREET WITHIN, E.C.,
Deals in all descriptions of Stocks and Shares at close market prices.

MESSRS. HARLAND AND CO., STOCK AND SHARE DEALERS, 225 and 236, GRESHAM HOUSE, LONDON, E.C. Bankers: London and County Bank.

Messrs. H. and Co. wish to direct attention to the DIVIDENDS declared by CHAPEL HOUSE and ALLTAMI COLLIERIES, and will be happy to supply hares in these companies at market rates. SPECIAL BUSINESS in Patent Ligno Mineral Paving Company.

M ESSRS. HARVEY, JORDAN, AND CO., MINING ENGINEERS AND AGENTS, ACCOUNTANTS, AUDITORS, MANAGERS OF PUBLIC COMPANIES, &c.

In connection with Messrs. TEAL, FOSTER, and Co., Georgetown, Colorado.

Mineral Properties Inspected.

LONDON OFFICES-30, MOORGATE STREET, E.C. THE LLANTRISSANT TIN PLATE WORKS. THE PLANET SILVER MINING CO.

JAMES STOCKER, STOCK AND SHARE DEALER, 2, CROWN COURT, THREADNEEDLE STREET. Bankers: London and Westminster.

J. S. TRANSACTS BUSINESS in Railway Shares, Stocks, Debentures, Bank, Telegraph, Insurance, Gas, and Miscellaneous Shares having no regular quotation. Accounts opened for the fortnightly settlement, and shares sold for forward delivery on receipt of cover.

SPECIAL BUSINESS in the following British and Foreign Mines, Colliery, and other Shares.

M.R. T. P. THOMAS, MINING AGENT AND AUCTIONEER, 3, CROWN COURT, THREADNEEDLE STREET, LONDON. Business transacted in Mining and Colliery Shares of every description. T. P. THOMAS is a BUYER of Tyllwyd Shares, at 15s. per share.

R. CHARLES THOMAS
MINING AGENT, STOCK AND SHARE DEALER,
3, GREAT ST. HELEN'S, LONDON, E.C.

MESSRS. A. W. THOMAS AND CO...
10, COLEMAN STREET, E.C.,
MINING AGENTS, AND STOCK AND SHARE DEALERS,

"INVESTMENTS AND SPECULATIONS FOR 1875."

HENRY CAMERON AND CO., STOCK AND SHARE BROKERS
AND DEALERS, 36, NEW BROAD STREET, LONDON, E.C.,
Have SPECIAL BUSINESS in Sound Dividend-paying Cotton Manufacturing
and Spinning Companies. Also, in non-risky Mining Shares—as Chicago Silver,
Gold Run, and other sure Mines.
Cameron's "Investment Gazette" sent on receipt of three stamps."

MESSRS. MARSHALL, BROWN, AND CO., STOCK AND SHARE DEALERS.
63, CORNHILL, LONDON, E.C.

GROSVENOR, ENTWISLE, AND CO.,
STOCK AND BHARE BROKERS,
88, PORTLAND STREET, MANCHESTER.

MESSRS. J. TAYLOR AND CO., 86, LONDON WALL, E.C., and MINING EXCHANGE, SOUTH KING STREET, MANCHESTER, MINING ENGINEERS AND INSPECTORS.

Business done in all descriptions of Stocks and Shares.

R. PERCYROBERTS, FINANCIAL AGENT, CARLISLE. M^{R}

T I M O T H Y H U G H E S, 59, SEEL STREET, LIVERPOOL.

The Registered Office of the PRINCE PATRICK GROSVENOR, WEST BRYN CELYN, CENTRAL FOXDALE, and GREAT EAST FOXDALE LEAD MINING COMPANUES (LIMITED). Full information respecting these Mines forwarded on application.

RELIABLE INFORMATION given respecting Mines in the Isle of Man, Fint-shire, and the neighbouring districts.

MR. EDWIN SKEWIS, WASHFORD, TAUNTON,

MI. B. EDWIN SKEWIS, WASHFORD, TAUNTON,
MINING AND MECHANICAL ENGINEER,
Engineering Plans and Sections. Specifications and Estimates prepared for all
kinds of Engineering Works. Surveys of every description made and levels taken.
IRON ORES A SPECIALITY.

CAPTAIN ABSALOM FRANCIS, MINING AGENT, ENGINEER, AND SURVEYOR. GOGINAN, ABERYSTWITH,

MR. JOHN SPRAGUE, late General Manager of the El Dorado Gold Mining Company, Nova Scotia, SEEKS similar EMPLOYMENT in any healthy part of the world. First class references. Address, Tenby Villa, Holloway, N., London.

WANTED, to PROVE a SILVER-LEAD MINE, on which four Gentlemen have expended \$2500, and for which one-third of the Mine will be reserved, FIVE THOUSAND POUNDS for the remaining two-thirds Lode 40 ft. wide; good machinery; and engine-shaft aunt 30 fms. under adit. The trial is pronounced by the best authorities as almost certain to prove as rich a Mine as any worked in the Principality.

All information and particulars may be had by addressing, "C. R. R. and F., MINING JOUENAL Office, 26, Fleet-street.—Sept. 1, 1875.

WANTED, FOR PUMPING, A WATER-WHEEL, in good condition, 32 ft. diameter, 4 ft. 6 in. breast.
Apply, stating lowest price, to the Harehope Gill Mining Company (Limited), Blackhill, Durham.

WANTED, a SECONDHAND ENGINE, for drawing ores to surface, with cages for men ascending and descending, complete; 70 horse power effective force. Must be in good condition. Full particulars and lowest price to be sent to "C. C.C.," Commercial Exchange, Newcastle on Tyne.

TIMBER WIRE FENCE POSTS WANTED,

PLAIN OR OREOSOTED.

TWENTY-FIVE THOUSAND, or any less number, 6 feet long, 6 inches by 3 inches half round, or 9 inches diameter, posts quartered, or equal section, delivered free ex trucks at Swindon Junction, Mariborough, or Savernake Stations of the Great Western Railway, or Andover Junction of the London and South-Western Railway, as may be required.

Immediate offers invited, stating quantity, description, and section, time for delivery; if creosoted, or not.

Address, The Inon Wire, Wire Rope, and Fencing Company, 1, Victoria-street, Westminster Abbey, S.W.

MINING AND RAILWAY COMPANIES, AND CONTRACTORS.—A late MANAGER of GOLD MINES in SOUTH AMERICA is desirous of a RE-ENGAGEMENT. Speaks Spanish, French, and Portuguese: understands the extraction and treatment of auriferous ores; and is a good accountant and surveyor. Eight years' experience in Spanish and Portuguese America on Railway and Mining Works. Highest references.

Address, "Pasco," MINING JOURNAL Office, 28, Ficet-street, London.

REMOVAL OF OFFICES TO 76, CHEAPSIDE, From 21, Gresham-street, London, E.C.

IRE TRAMWAYS ARE NOW IN OPERATION IN ALL
By recent improvements, inclines as steep as 1 in 3 can be surmounted, and
ravines up to 200 yards, can be crossed without intermediate support. Quantities
from 50 to 600 tons daily can be thus transported.
For full information, and references to examples at work, apply to the Engineer,

W. CARRINGTON, 76, CHEAPSIDE.

TO MINING COMPANIES

AN EXPERIENCED MINING ENGINEER, who has been for the last seven years occupied in SPAIN, is desirous of OBTAINING the MANAGEMENT of MINES in that country, or REPRESENTING FIRMS wishing to PURCHASE MINERALS, or NEGOCIATE for MINES. He speaks and integrits. He speaks and integrits and integrits of the seven was a serior of the seven when the seven was a seven was a seven when the seven was a seven when the seven was a seven was a seven when the seven was a seven when the seven was a seven was a seven when the seven was a seven when the seven was a seven was a seven when the seven was a seven was a seven when the seven was a seven was a seven when the seven was a seven was a seven was a seven when the seven was a seven was a seven was a seven when the seven was a seven when the seven was a seven was a seven was a seven was a seven which was a seven when the seven was a seven was a seven was a seven when the seven was a seven when the seven was a seven was

German, Spanish, and French, and can give the nignest references as to his ability and integrity,
Address, Messrs. CHARLES HOPPE and Co., Santander.
Before fully engaging himself, he is at liberty to make any Surveys and Reports in Spain or Portugal.

FOR SALE,—An EXTENSIVE and PROSPEROUS SLATE and SLAB QUARRY in NORTH WALES.

Apply, "O.," MINING JOURNAL Office, 28, Fleet street.

VALUABLE COPPER AND SILVER-LEAD MINES. FOR SALE THIRTY-FIVE MINING CONCESSIONS, containing COPPER and SILVER-LEAD ORES of extreme richness, this former yielding up to 60 per cent. COPPER, and the latter up to 1½ per cent.

Apply to ALEXANDER LESLIE, Ashley-terrace, Aberdeen. 950 BLAKE'S PATENT ORE-CRUSHERS NOW IN USE.

ogues, apply to—
Ms. H. B. MARSDER, SOHO FOUNDEY, LEEDS,
Only maker in the United Kingdom.

NOTICE TO BRITISH AND FOREIGN MINING COMPANIES.

CONTRACTS FOR HIGH AND LOW CLASS ORES. HALVANS, SKIMPINGS, BURNT LEAVINGS, &c.

TENDERS ARE INVITED FROM MINES IN A POSITION TO SUPPLY THE ABOVE.

Forms of tender and all information may be obtained on application to the Profit Union (Limited), 8, Union-court, Old STEPHEN H. EMMENS, Managing Director. Broad-street, London, E.C.

THE METAL TRUST.

This Trust has been instituted under the auspices of the Profit Union (Limited) for the purpose of providing funds for the erection of works adapted to the treatment of low-class metallic ores by Emmens' "Nascent Copper" and other processes.

At the Emmens United Mines and the New Consols Tin and Arsenic Works (Limited) this treatment has been for some time past in operation to the extent of upwards of 800 tons of ore monthly. The result has been to prove, on a large scale, that by this means ore containing as little as 1½ per cent. of copper and 5 ozz. of silver to the ton may be treated at an average profit of over 10s. per tout, and that this profit is proportionately augmented with every increase in the richness of the ore. Much of the poor ore treated at the Emmens United Mines, for example, yields a net profit of from 20s. to 30s. per ton.

per ton.

It must be remembered that the low-class ores in question are not sufficiently productive to be saleable in a raw state, and are usually thrown aside
as waste, the quantity of such wastes produced at most mines being far in
excess of the ore actually sent to market. Hence the returns of these mines
would be materially increased by the adoption of the "Nascent Copper"

would be materially increased by the adoption of the Mascent copper process.

The difficulty to be contended with is simply a want of capital for erecting the necessary works, and if this capital could be advanced there are numerous mines ready to offer unimpeachable security and very advantageous terms for its employment in this manner, as they would thus soon be enabled to enter the dividend-paying list.

To meet this requirement the Metal Trust has been formed for the issue of bonds, secured upon the buildings, plant, and machinery provided and acquired from time to time by the Profit Union (Limited) in the execution of contract—tetered into with various mines for the treatment of metallic ores.

These bonds are issued to bearer for the sum of £10 each, and the price of issue is £8, payable as follows:

2 on aniotment.

2 on allotment. 5 three months after allotment.

Coupens for interest at 8 per cent. per annum, payable half-yearly are attached to the bonds, and redemption at par (£10 per bond) is effected by annual drawings, extending over ten years from the date of issue, the bonds issued is each year constituting a fresh series for this purpose.

After poviding for interest and redemption, and for the expenses of management (limited to 2 per cent. upon the amount of bonds current from year to year), any balance of profit that may remain from the earrying out of the contracts is divided into two equal moieties, whereof one-half is paid to the Profit Union (Limited), and the other is paid to the Metal Trust, the additional bonds thus created being drawn for and distributed by way of bonus amongst the existing bondholders.

The accounts of the Trust will be audited once in every six months by Messrs, Johnstone, Cooper, Wintle, and Co., public accountants, of 3, Coleman-

street Buildings, E.C., and a copy will be forwarded to every bondholder on

application.

Dr. Stephens H. Emmens, the managing director of the Profit Union (Limited), and the proprietor of the Emmens United Mines, near Callington, in Cornwall, will superintend the business details, and will be assisted by the following gentlemen, whose skill and experience are well known, viz.:—

Dr. J. W. Perkins, F.C.S. (late of the New Consols Tin and Arsenic Works (Limited)).

Limited.

Capt. H. Bennett (Emmens United Mines).

Capt. W. Knott (Emmens United Mines).

Capt. W. Knott (Emmens United Mines).

Capt. G. Spargo (late of the Newton Heath Reduction Works).

Capt. B. Spargo (late of the Newton Heath Reduction Works).

Capt. Thos. Neil (Harewood Consols).

It will thus be evident that the Metal Trust is an industrial undertaking of legitimate character, and must coiner great benefits upon the mining establishments of the country. At the same time its bonds constitute a perfectly late investment, as they are secured upon substantial property; while the erms of interest, redemption, and bonus are such as to render them more than usually remunerative.

Without attempting to institute invidious comparison.

usually remunerative.

Without attempting to institute invidious comparisons, it may be observed that the Metal Trust is not loaded by any promotion money or preliminary expenses, and that the bondholders will have the satisfaction of knowing that their subscriptions are wholly devoted to the useful and profitable purpose for which they are contributed.

Application for bonds must be made on the accompanying form, which together with the deposit, must be forwarded to the undersigned, at the office of the Profit Union (Limited), 8, Union Court, Old Broad-street, London, E.C.

August, 1876.

By order,

STEPHEN BOOME, Secretary.

FORM OF APPLICATION FOR BONDS OF THE METAL TRUST. To the Managing Director of the Profit Union (Limited).

To the Managing Director of the Front of the India (Imited).

Sis,—Having paid you £, being a deposit of £1 per bond upon bonds of £10 each of The Metal Trust, I hereby request you to allot me such bonds, and in the event of your so doing I agree to pay you the further sum of £7 per bond by the instalments set forth in the annexed prospectus of the Trust.

Full name

Address...

Date Occupation

FORM OF RECEIPT.

(To be signed by the Bankers of the Profit Union, Limited, and returned to the applicant).

Received of Mr. the sum of , being a deposit of £1 per bond in respect of an application for bonds of the Metal Trust.

IRON AND STEEL INSTITUTE.

The annual provincial meeting of members was commenced in the Lecture Hall of Owen's College, Manchester, on Monday,

Mr. WILLIAM MENELAUS, President, in the chair.

Amongst those who were present at the opening were—the Mayors of Manchester and Salford, the Bishop of Manchester (Dr. Fraser), Sir Joseph Whitworth, Principal Greenwood, Mr. H. Bessemer, Mr. Isaac Lowthian Bell, M.P., Prof. W. C. Williamson, and many others occupying prominent positions in connection with science and industrial

of Manchester and Salford, the Bishop of Manchester (Dr. Fraser). Sir Joseph Whitworth, Principal Greenwood, Mr. H. Beasemer, Mr. Isaac Lowthian Bell, M.P., Prof. W. C. Williamson, and many others occupying prominent positions in connection with science and industry.

In welcoming the Institute to the city, the Mayon of Manchester Remerked that when he remembered the immense magnitude of the firms with which they were connected, and the hundreds of thousands of men who were engaged in the trade, he could not but recognise the importance of the Institute. He knew it was not within their limits to touch upon questions affecting wages, or the co-operation of capital and labour. They were an association for the promotion of scientific research and technical advancement in connection with the manufacture of iron and steel. He bade them a most hearty welcome to Manchester, and said that if in his capacity as Mayor he could do anything to promote the usefulness and the pleasure of the visit he should be most happy.

The MAYOR of SALFORD (Mr. Harwood) on behalf of the people of Salford, welcomed to the city of Manchester the members of the Iron and Steel Institute. That association was composed of gentlemen possessing the highest scientific knowledge, and in turning science to their benefit they at the same time added very materially to the wealth of the nation.

The BISHOP of MANCHESTER, who was very warmly received, and is highly popular in the district, remarked that he really felt that he was intrading into a sphere in which he had no business, and as he had got somewhat of the character in Manchester of taking about all sorts of things about which he was not supposed to know anything, he confessed that he rather shrank from the responsibility of addressing the practical intellects that he knew he should see around him. At that moment he hardly knew in whising about all sorts of things about which he was not supposed to know anything, he confessed that he nearly character of the powernors of the College, who had th possible. He imagined that if Drake, or proofsile, or any of the great navigators of Queen Elizabeth's time, had been to did that ships could be sent to sea, and to great the person who told them, and would have believed how so playing on heir credulty. True, we had not succeeded altogether with our lon-pited ships, as the unfortunate misativenture in the Irish Channel proved. He did not know how it happened, but their ingenious contrivances were not always applicable at the product of the person when they were wanted. He found it stated that it a certain bould not the product of the person when they were wanted. He found it stated that it a certain bould not when they were wanted. He found it stated that it a certain bould not when they were wanted. He found it stated that it accrtain the product of the person when they were wanted. He found it stated that it accrtain the person when they were discussions of valuable papers to valuable as this without some such preparation. The PERSIDENT sould it was the rule of the Institute to the Institute to the Institute to the person when they were discussions of valuable papers to extend over two happened, but their ingenious contrivances were not always applicable at the person for a training the person when they were wanted. He found it stated that it cortains the state of the wind it is a certain bould not be a such that the person is a such as the subject of the first paper, but the requisite preparation, and are in the person and the subject of the first paper, by Mr. Daniel legal to the person and the subject of the first paper, by Mr. Daniel Adamson, F.G.S., of Hyde Junction (the Chairman of the reception committee). The quadruple-action steam-engines are used for driving a cotton-mill, having 48,096 spindles, with all the requisite preparation, and are

Received of Mr.
respect of an application for bonds of the Metal Trust.

Let :

driven by steam produced from two steam-boilers of the double-flued Lancashire type, each 30 ft. long by 7 ft. in diameter, having two flues each, 2 ft. lo in ontside diameter, and crossed by 80 econical tubes welded solid into the fluer five shell and five-boxes of these boliers are made of steel plus, are squared from the five shell and five-boxes of these boliers are made of steel plus, are squared five shell and five-boxes of these boliers are made of steel plus, are squared five shell and five-boxes of these boliers are made of steel plus, are squared made of iron plates welded up into one piece, and are stayed with gusset and longitudinal stays, attention being paid to give great strength, with a moderate amount of clasticity, as secured by the flange joint, to meet the ever-varying changes induced by the varying temperature of the fires or five, as well as the change of heat caused by the varying temperature of the fires or five, as well as the change of heat caused by the varying temperature of the mere or mainter and the steam of the steam five shell and injurious when steam is being got up in induced by the water and the more mainters are the evil arising from a disturbed and irregular temperature in the interest of the steam for the steam of the steam for the steam of the steam of the steam of the steam for the steam of th

Mr. T. LAVINGTON FLETCHER, engineer to the Manchester Steam Users' Association, said he was inclined to recommend his society to lay down a pair of experimental engines. By this means the matter could be theroughly investigated, and accurate results obtained. Present investigations were not of much value, and accurate results of engines working under very different circumstance, and only led to mistakes being made.

Mr. W. 8. Wroc, Dukinheld, said that he appeared before the meeting as a cotton spinner specially, not as a practical engineer, and, therefore, what he had to state to them were real facts. The facts to which he referred were found in his pocket. The firm with which he was connected had two mills, in one of which trips engine were in use, and in the other they used quadruple engines, and it was found by practical results that the use of quadruple engines effected a great saving. In the Victoria mill, in which triple engines were used, during the last six months 57,30 spindles had been driven at an expenditure of 50 tons 1 cut. of coal per week. At the Albert Mills, where quadruple engines were used, 48,240 spindles were driven by a consumption of 35 tons 12 cuts. of coal per week. The directors considered that they had been speat upon them. With the triple cylinders they had been working at 2½ los. per hour per home power; with the quadruple engines they were working at about 1½ lo. per hope per horse-power. The directors considered that they had now a pair of engine that saved more than any other engine in the neighbourhood.

Mr. Adamson briefly replied, and consented to the adjournment of the discussion until the next meeting of the Institute in London.

The "Howard Boiler" formed the subject of a paper by Mr. Davin Joy, of Barrow-in-Furness, read at the previous meeting, and the

Mr. ADAMON Driefly replied, and consented to the adjournment of the discussion until the next meeting of the Institute in London.

The "Howard Boiler" formed the subject of a paper by Mr. Davin Joy, of Barrow-in-Furness, read at the previous meeting, and the discussion of which was adjourned. Mr. Joy stated that the Howard boiler had been before the public in various forms since the year 1866, when the first one was made by Messrs, J. and J. Howard, of Bedford, for use in their own works. The object of the paper was 1866, when the first one was made by Messrs, J. and J. Howard, of Bedford, for use in their own works. The object of the paper was 1866, when the first one was made by Messrs, J. and J. Howard, of Bedford, for use in their own works. The object of the paper was 1866, when the first one was made by Messrs, J. and J. Howard, of Bedford, for use in their own works. The object of the paper was 1866, when the first own works. The object of the paper was 1866, when the first own works. The object of the paper was 1866, when the first own works are the first own works and the first own works. The object of the paper was 1866, when the first own works are paper was 1866, when the first own works are paper was 1866, when the first own works are paper was 1866, when the first own works are paper was 1866, when the first own works are paper was 1866, when the first own works are paper was 1866, when the first own works are paper was 1866, when the first own works are the first own works and the first own works are all held together by the vertical boths passing down through the heads of each tube, and which serves for the examination and cleaning of each tube. The values this both was 286 for the same time to paper and 56 feets the best and the paper was 286 feets of the best own works and 1866, which was 286 feets and 56 feets with the sections feeding it, an independent boiler and safety valve, and so forms, wi

should be taken in handling the boller. He did not want to use the strong language which Mr. Fletcher had applied to the Howard boller, but what he did say was that he would not use it.

Mr. Jox, in reply, said that the inventor of a new appliance must expect severe criticisms at the hands of the representatives of vested interests, but he had not been prepared for the sweeping denunciations he had that day heard. The Howard boiler, like other important new inventions, had had to go through experiments and failures, but he contended that it had met with considerable success, and was approaching perfection. In conclusion, he said that the Messrs. Howard would develope the good points which they believe they had got in their boller, and would endeavour to correct the faults which experience found in them.

"The Use of Caustic Lime in the Blast Furnace" was treated of in a paper by Mr. ISAAC LOWTHIAN BELL, M.P., who said that the conversion of limestone into caustic lime was effected by the burning of a certain quantity of cheap coal in a limekiln. It was reasonable to suppose that there might be a saving of the more expensive kind of fuel used in the blast-furnace itself by the previous calcination of limestone used in smelting iron. Accordingly, it has occasionally been the practice to use the flux in the form of caustic lime. Mr. Bell's object in the paper he read on this subject was to show that the saving in fael in furnaces 48 ft. high was insignificant, the chief advantage being an increase of make from apparatus already overtaxed when running 200 to 210 tons per week. In the case of 80 ft. furnaces, of 15,000 cubic feet, running \$50 tons, and therefore a much less proportionate quantity, there was no advantage either in fael or in any other respect by a previous calcination of the limestone. Mr. Bell proceeded to show, upon chemical research.

Mr. E. Williams (Middlesborough) said the fact that the conclusions of the

a cal reasoning, to what this expected want of economy is due. His views he supported by quoting actual results obtained at the Clarence Works, and the probable action of the lime found naturally in the Cleveland ironstone was explained by experimental research.

Mr. E. WILLIAMS (Middlesborough) said the fact that the conclusions of the paper just read had been arrived at by such an authority as Mr. Bell might be taken as good evidence that they were accurate; and he had no doubt that members, on carefully considering the paper, would find these conclusions perfectly sound. He was no advantage, we will considering the paper, would find these conclusions perfectly sound. He is the summary of the conclusion that there was no advantage in calcining. It was nearly given up at the Cleveland Works. Ione slight advantage, but one, perhaps, more in convenience than a money advantage, sustant the burning of limestone broke it well up, and thus saved the workment that the burning of limestone broke it well up, and thus saved the workment the troublesome process of breaking it on the floors at the back of the furnaces. He mentioned as an example of the adoption in ironworks of practices which were much more economical in fancy than in fact that at the works with which he was connected he had for some time burned forge and mill ashes with the fine coal for calcining. He now, however, burned small coal by itself, and found that they saved 20 per cent. In the consumption of that coal when it was used alone. When they thought they were utilising the ashes they were taking 20 per cent. of coal to burn them up. He hoped Mr. Bell would continue his investigation into the subject of his paper.

Mr. A. Brogorr, M.P., had found that by the use of lime his furnaces produced to burn them up. He hoped Mr. Bell would continue his investigation into the subject of his paper.

Mr. A. Brogorr, we have a proportionately reduced consumption of one. In their high furnaces to those they obtained in their lower ones. The new furnaces were from

As ft. in height, and during the last four years amplications to say whether they during their hot-blast arrangements. It was, therefore, difficult to say whether they during the improvement in great part to these alterations.

Mr. HOSGOOD, of Merthyr Tydvil, had found the use of calcined limestone advantageous, both for quantity and quality of iron produced from a low furnace, but Mr. Crawshay, of the same place, had tried it, and found the quality of the iron deteriorate when they used calcined stone.

The CHAIRMAN feared members would think the Welsh experience not very consistent. At Dowals, nearly 30 years ago, there was a movement in favour of using lime, and his predecessor (Mr. Evans) made a set of experiments in which he (the Chairman) took no part. However, he could remember that they were carefully and honestly made. The result was that the use of calcined limestone was declared to be of no advantage. Its use was, therefore, abandoned, and had not been resumed.

elared to be of no advantage. Its use was, therefore, abandoned, and had not executed.

Mr. I. LOWTHIAN BELL, in reply, said that, not withstanding the remark of the President, they were tolerably consistent in their views as to the use of limestone in its burnt or unburnt state. He admitted that in what he termed an imperfect furnace—i.e., a furnace no to 50 ft. in height—there was certain to be an advantage in the use of calcined limestone, because by its use they relieve the furnace, protanto, of an amount of work thrown, as it were, upon—houlders entirely unable to bear the burden. But in a perfect furnace, which carried the economy of coke as far as the chemical condition was materially altered they had nothing to gain by it. In his paper he had dealt with turnaces under perfect conditions, and Mr. Brogden having imperfect furnaces, he was not surprised that he derived some benefit from the calcined timestone. He and some other gentlemes who had spoken were using furnaces 45 ft. in height instead of 50 ft., and looking at esonomy of fuel as an abstract question, these gentlemen were simply wasting then

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An ordina the Geolog the chair. w. J. D nd Mr. Jos Homer, of hat he was padmit of hire Institu en from e luncil had resident, se ne, should Mr. Thom

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the tone rect tage, pro able coke that n by Mr. ome had eep-

ds a year by the use of such furnaces. The loss of heat in furnaces of low height "something terrific." The reduction of fuel in the North of England by the means of raising the furnaces had been astounding. In fact, he did not ple means of a raising the furnaces had been astounding. In fact, he did not sate to say that the apparent economy of fuel effected by heightening furnaces lenged comparison with that effected by the hot blast, lenged comparison with that effected by the hot blast.

SOUTH STAFFORDSHIRE AND EAST WORCESTERSHIRE INSTITUTE OF MINING ENGINEERS.

SOUTH STAFFORDSHIRE AND EAST WORCESTERSHIRE INSTITUTE OF MINING ENGINEERS.

An ordinary general meeting of members was held, on Monday, the Geological Museum, Dudley; Mr. John Hughes, the President, the chair. Among the members were Mr. Thomas Latham, vice-sident; Mr. Henry Johnson, Mr. Thomas Brettell, Mr. T. Parton, Mr. W. J Davies, Mr. W. Spruce, Mr. J. M. Fellows, Mr. J. Field, Mr. J. Davies, Mr. W. Spruce, Mr. J. M. Fellows, Mr. J. Field, Mr. J. Davies, Mr. W. Spruce, Mr. J. M. Fellows, Mr. J. Field, Mr. J. Davies, Mr. W. Spruce, Mr. J. M. Fellows, Mr. J. Field, Mr. J. General Mr. Joseph Lawley, mechanical engineer, Netherton. Mr. C. Memer, of Chatterley Hall, Tunstall, was nominated as a member. The secretary reported that the Duke of Sutherland had written the was afraid the accommodation at Dunrobin was too small sident of the South Staffordshire Institute and North Staffordshire Institute Institute Institute Institute Institute Institute Institute Institute Institute I see of coal failing from severe two names and affining a loader indeed the manager liable to be fined. The manager ought, esfore, to possess the power of omnipresence. With a system a theirs, where the timber was being removed and shifted from ening until night, and from night until morning, how was it suble for a manager, with only one pit, to see and direct everying? The common-sense view of things was that each indival miner whose duty it was to set the timber should be if responsible for his own safety. As it was, all—even the gg, or deputy, or the collier—were free from all responsible for his own safety. As it was, all—even the gg, or deputy, or the collier—were free from all responsible for his own safety. As it was, all—even the first to be come careless, whilst the manager had all the remaibility. In long wall working systematic timbering could be mid to a greet extent, but there were cases, and always would where much should be left to the practical judgment of the a. The duties of managers should yet have the most careful constitution at the hands of the Government. It was not the spirit the present law they complained of, because an Act was wanted compel care; but the letter of the law was too often misapplied, slaw saitat presents tood professed to accomplish universal safety varied requirements were in themselves valuable means to an ibut the mistake in application was self-evident. It treated the ming world like a physician who insisted on treating all his patients in the same medicine. First, it was deemed advisable that the possibility of collier, deputy, and manager should be more clearly inst; and, second, if the status of the working collier was to be proved there should be an issue of the second-class certificates skilled workmen. He (Mr. Parton) would go further, and have filleates for (a) general manager, (b) manager, (c) deputy, and special engineering department. Then the responsibility would fivided, as it was in the marine service of the country, where captain and three or four office

Plus decidating the question.—Mr. Tomson seconded the vote of also by Mr. Parton, which was carried unanimously.—Mr. Parton lied, and said that he only cited the case to show that the Act lot working rightly; not because he wished to discuss the terat all. (Hear, hear.) It was fair to argue by analogy, and a the weaknesses of the Act were shown they should be used as ments.

is. Thomas Bridgwater, of Kingswinford, exhibited a new signal for mining purposes. A vote of thanks was passed to the extor.—The secretary said the following was the result of the electand ballot alluded to above:—Mr. John Hughes (president), Smith (secretary), Mr. Thos. Roper, Mr. W. J. Davies, Mr. Henry Mon, Mr. J. M. Fellows, Mr. Thos. Parton, Mr. John Skidmore, W. Spruce, Mr. W. Blakemore, Mr. D. Rogers, Mr. Thos. Brettell, M. Fletcher, Mr. J. Dando, Mr. S. or J. Balley, Mr. Addenbrooke, H. Hughes, Mr. Nicholson, Mr. R. Mason, and Mr. S. Rowley, the secretary read an important letter from the secretary of the thidiand Institute, in which a desire was expressed that the lastitutes should be amalgamated, many members of the Wolampton body desiring to join the South Staffordshire and East exetrality: Institute,—It was moved by Mr. Hughes, the presid of the Institute should be convened to receive the proposed dation from the South Midland Institute. Thomas Bridgwater, of Kingswinford, exhibited a new signal

REIRG AND LOADING COAL.—Mr. W. FIRTH, of Burley Wood, less, has patented some improvements in machinery for working and load-less provisional specification describes an arrangement for giving a self-acting and medical to coal-cutting machines in which the cutter receives a reciprocat-

call is also described.

AUSTRALIAN AFFAIRS, AND PROGRESS.

The consumption of our railway iron this year in the Australian colonies and New Zealand has attained such importance that we need make no apology for referring to it in some detail. Our exports of railway matériel to the Antipodes presented some little weakness in July as compared with the corresponding month of 1874; nevertheless, they amounted to 4476 tons, as compared with 17133 tons in July, 1874, and 1716 tons in July, 1875. In the seven months ending July 31 this year the exports attained an aggregate of 46,491 tons, as compared with 45,221 tons in the corresponding period of 1875, and 11,009 tons in the corresponding period of 1875. The exports have thus been maintained this year, while as compared with those made two years since they show an augmentation of somewhere about 400 per cent. Under these circumstances, it is clearly interesting to trace in a few broad outlines a few current phases of Australian life and history. In New Zealand, a marked improvement is reported in the principal mining interests of that colony, and particularly in gold mining in the Thames field. The latest discovered gold field—the Tarna—is said to promise very rich returns; the result of the crushing of 24 tons of stone from the top of the reef was a yield at the rate of 40 cas. to the ton. At the last dates, several new companies had been formed to work fresh claims. Even Western Australia, long the most stagnant and unprogressive settlement on the Australian coast-line, seems to be bent on developing its mineral resources. Thus, the Western Australian Government has offered a reward of 5000/k for the discovery of a payable gold field within 300 miles of a declared port. This reward is attracting the attention of adventurous prospectors in neighbouries and Sydney for testing exhibit favourable results, a proportion of upwards of 1 oz. to the ton having been obtained.

Lead and copper are said to exist in large quantities in Western Australia, particularly in the no

RAILWAY PROSPECTS.

RAILWAY PROSPECTS.

One of the most remarkable features of this year of floods, failures, dividend collapses, and what not, has been the improvement which has been established in the prices current for the ordinary stocks of British home railways. There are now only three large companies—the Great Eastern, the Mauchester, Sheffield, and Lincolnshire, and the London, Chatham, and Dover—whose ordinary stocks are the following companies were in this unfortunate position:—The Great Eastern, the London, Brighton, and South Coast, the London, Chatham, and Dover, the Manchester, Sheffield, and Lincolnshire, and the North British. The ordinary stocks of two other important companies—the Caledonian and London and South-Western—were under par, while four years since (that is at the close of August, 1871) also barely above par in August, 1871; now they are at a respectable premium. Moreover, even as regards the Great Eastern, the London, Chatham, and Dover, and the Manchester, Sheffield, and Lincolnshire, the ordinary stocks of those companies have sensibly hardened since, Angust, 1871, although they are still somewhat laggards. In August, 1871, Great Eastern stood at 43, while it closed last month at about 53; in August, 1871, London, Chatham, and Dover was quoted at 22, while it had crept up to nearly 26 at the close of last month; in August, 1871, Manchester, Sheffield, and Lincolnshire was vegetating at 63, while in August, 1875, it acquired the relatively excellent price of 79. It may be interesting to enquire how it is that in a period of considerable difficulty in many branches of business railway property has thus been steadily growing in value.

We believe the causes of the improvement are readily ascertainable. In the first place, there is now an immense class of small railway investors, whose savings help from time to time to sustain railway investors, whose savings help from time to time to sustain railway investors, whose savings help from time to time to sustain railway investors, whose savings help from tim

nary stocks, upon an average, they have gradually grown in value. Thirty years since the large small capitalist class regarded railway investments with a certain apprehension, but now it ventures into them calmly and confidently. In the second place, railway property is better administered than it formerly was. The director interest has grown in stability and respectability. The great railway companies now elect as directors gentlemen who are substantially interested in the concerns of which they assume the management, and the benefit resulting from this is great and obvious. In the fourth place, railway property has gradually become more and more fused in a few general networks, and this has had the effect of reducing competition on the one hand, and expenses of management on the other hand. In the fifth place—and this is, perhaps, the most important consideration of all—the population and wealth of the country appear to have a constant tendency to expand, and the effect of this expansion is to pour more and more traffic upon systems which even four years since were tolerably crowded with business.

These are the causes which have led to the growing prosperity of British railways. That prosperity was checked for a tine by the coal difficulty which prevailed two years since; but still it is so well established that, left to itself, British railway property has a gradual tendency to grow in value. We have gone into the matter in some detail, b-cause the coal and iron trades are obviously interested in the prosperity of British railways. When our great railway companies do well they are likely to expend larger amounts on the renewal of permanent way, and the construction of sidings and duplicate lines, to say nothing of extensions, which do not appear to have been yet quite brought to a close. The great railway boards have undoubtedly helped the iron trade to tide over the season of depression and difficulty against which it has had to contend

ing motion from an air engine. An arrangement is also described for working coal by drilling and afterwards pressing or forcing it down. An arrangement forloading coalisalso described.

AUSTRALIAN AFFAIRS, AND PROGRESS.

The consumption of our railway iron this year in the Australian colonies and New Zealand has attained such importance that we colonies and New Zealand has attained such importance that we read make no applicant for referring to it in some detail. Our expendence of the consumption of this probability of a further growth of traffic it might be well for our large railway companies to lay three lines of rails upon all their main lines. The London and North-Western appears to be doing this, and has been a good customer for rails accordingly.

GAS IN LONDON.

this, and has been a good customer for rails accordingly.

GAS IN LONDON.

There appears to be an impression that gas in London is about to be revolutionised. We do not intend it to be inferred that any different system of manufacture is about to be introduced, but what we do mean is that the Metropolitan Board of Works is showing a disposition to purchase the undertakings of the various metropolitan gas companies, and as it can raise capital at a very moderate rate of interest—its 34 per cent. stock now standing a little above par—it will be enabled, if it obtains Parliamentary sanction to the designs attributed to it, to produce gas upon somewhat cheaper terms than those upon which it is now made by the gas companies. The gas companies of London conduct their business upon principles differing materially in one respect from those in voque with other undertakings. Thus, the companies set out upon the hypothesis that they are, under any circumstances, to be assured 10 per cent. is to be forthcoming. The coal difficulty, which has now happily subsided to a great extent, was a sore trial for metropolitan gas managers; but they advanced their rates, and drew, to some extent, upon the large reserves which they had previously formed, so that the 10 per cent. was still forthcoming even when matters were at their worst. The question which now awaits a solution which the future alone can give is—"Will the companies continue to be protected by Parliament in the enjoyment of their magic 10 per cent., or will Parliament in the enjoyment of their magic 10 per cent., or will Parliament enable the public authorities of London to avail themselves of their high credit, pay off the gas companies in stock or cash, and manufacture gas for the gas-consuming public of the metropolisa at a cheaper rate than that at which they can at present obtain it?" In the present session of Parliament three bills were introduced by the Metropolitan Board of Works and the Corporation of London. The object of the first of these bills was to empowe

TREATMENT OF ORES.—Sir D. G. FITZGERALD, of Brixton, has patented some improvements in apparatus and processes for the treatment of auriferous and other ores and metallic compounds. The invention relates to the treatment of ores or oxidisable substances in a converting vessel containing nitric acid, or this acid in admixture with other mineral acid. By means of a tube communicating with the external atmosphere air is forced or drawn through the mixture of the oxidisable substance and acid. Heat may if necessary be applied to the mixture contained in the convert in gvessel, which latter is connected with a receiver, in which any volatalised acid may be condensed. This receiver is by preference connected with three or more Woolf's bottles or other equivalent vessels, respectively containing substances by which the vapours such as nitrous acid, peroxide of nitrgen which have escaped condensation in the receiver may be absorbed.

THE NEW CARBONIC ACID MOTIVE POWER,—Dr. H. Beirs, of Groeningen, has lately written an exhaustive article on liquid carbonic acid as the successor of steam, in which he says:—"For many years I have, with the collaporation of my brother, who is director of the Netherlands soda manufactory at Amsterdam, considered the question. 'How to transpose heat into mechanical power more advantageously than it is done in our common steam and other engines It occurred to me to make an experiment to see what degree the tension of the carbonic acid given off by natrium bicarbonate would amount to when heated in a close space, we were surprised and much gratified to find that when natrium carbonate in a dry pulverised state, or in watery solution, is heated in a closed space, a part of the carbonic acid given off and condensed in a non-heated portion of that space, so that, at a temperature of 3000 or 4000 C., liquid carbonic acid can be distilled out of this salt with a tension of from 50 to 60 atmospheres."

WELDING TUBES.—The object of the invention of Mr. H. K. Flagers is to prevent the round bar and b

ing on each side of a square-shaped shoulder on the front end of the bar.

ROTARY PUDDLING FURNACES.—The invention of Messrs, E. A. and J. A. Jones, of Middlesborough, consists firstly in admitting water intermittently to the space between the casings of the furnace (when the furnace is composed of two casings), which are practically water-tight, by various modes or composed of two casings), which are practically water-tight, by various modes or composed of the rotary furnace by means of pipes, channels, or ducts, one or more of which are colled round the outside of the outer casing, and communicate at one end with the water space. Or, if preferred, they may be colled in the water space, one end passing through the outer casing; and, thirdly, in connecting the water pipes which are cast in the bodies of the rings, or fitted in after the rings are cast (which rings are attacled to the ends of the rotary furnace) at their external ends outside the furnace, with the water space between the casings by means of branch pipes or connecting pieces.

FASTERING TYBES OF RAILWAY WHFELS.—The inventions of

pipes or connecting pieces.

FASTENING TYRES OF RAILWAY WHEELS—The invention of Mr. R. HOLLAND, of Wednesbury, consists in dispensing with the ordinary pierologs in the tyre and the fastening pins, and using in piace thereof fastening parts constituting portions of the rim and tyre of the wheel. For this purpose equi-distant projecting pieces of a hook or dove-tail form are made on the outer edge of the periphery of the rim, which pieces are engaged by a twisting motion with an annular groove or seat in the heated tyre, cut away parts or slots in the tyre permitting of the passage of the projecting pieces into the grove or seat. By the contracting or strinking of the heated tyre upon the projecting pieces of the rim, the tyre is fasted to the rim, the clinching or compressing of the metal of the tyre preventing the movement of the rim on the tyre. The inner edge of the tyre is fastened to the inner edge of the rim by a flange on the former taking into a groove in the latter.

in the latter.

STEAM-BOILERS.—According to the invention of Mr. JOHN SHAW, of Low Walker, a steam-boiler is constructed of a pair of equal and separate parts or sections. Each section ornsists of a cylindrical or other shaped casing, in the lower part of which is a cylindrical fire-box extending through the section, above which are fire tubes extending through the section. The two sections are set back to back with an enclosed space between them, into which the flames from the fire grates of both sections issue and whence they pass into the fire tube above, issuing into an up-take in the front of each section which may lead into a chimney common to both sections. Both sections communicate with one and the same steam chamber at top by means of pipes provided with shut-off valves.

ADMALITEC FARILES OF A PROCESSOR.

chamber at top by means of pipes provided with shut-on vaives.

ASPHALTIC FABRIC FOR ROOFING.—The improved asphaltic fabric invented by Mr. CHARLES GAUDEFROY, jun., of Beaucamps-le-vieux, France, is composed of a web of a limal hair or flock, steeped in a bath of gas tar, pressed between two cylinders to expel the excess of tar, then spread upon the ground and sprinkled with past ashes, care being taken to make them enter the web, which is allowed to dry a little, is again steeped in a bath similar to the first, then again pressed, spread out to thoroughly dry in the air, and finally, before being rolled up it is sprinkled with fine river sand. In applying the fabric as a roofing the

By Railway and Canal.

boards usually placed upon the rafters are dispensed with, the rafters are placed about 1 foot apart, and the fabric is at once nailed thereon. The edges of the fabric are brought close together, and the joint is covered by laths, which are afterwards coated with tar. Vegetable tar, asphalt, and analogous matters may be substituted in lieu of the gas tar, and the peat ashes be replaced by vegetable or other ashes, earth, or an equivalent.

Meetings of Bublic Companies.

WHEAL UNY MINING COMPANY.

A general meeting of shareholders was held at the offices, Austinfriars, yesterday (Friday),—Mr. ROBERT M'CALLAN in the chair.
Mr. HICKEY (the secretary) read the notice convening the meeting, and the minutes of the last were confirmed.
The accounts for 12 months ending July 17 showed a loss of 480l.
The debit belance use 250l.

The debit balance was 850l.

The accounts for 12 months ending July 17 showed a loss of 480/. The debit balance was 850/.

The report of the agent was read, as follows:—

Sept. 9.—The lode in the 160 end, west of engine-shaft, is disordered and poor, but we have a good shoot of tin in the 150, west of this place, which we shall doubtless intersect in the bottom level. The 160 east is worth 82, per fathom. A stope in the back of this level is worth 101, per fathom. The 150 end, east of fullies shaft, is worth 122, per fathom; and yields stones of tin. The 150, west of Incline shaft, is worth 122, per fathom; we have not yet begun to stope the back of this level. The 140 end, east of King's, is worth 122, per fathom, A stope in the back of this level is worth 102, per fathom. The 130 east is worth 72, per fm. Three stopes in the back of this level are worth 102, per fathom. Three stopes in the back of this level are worth 84, 82, and 122, per fathom. Three stopes in the back of this level are worth 84, 82, and 122, per fathom. The 100 in the 110 end east is worth 132, per fathom and. The 100 end east is worth 104 per fathom and we worth 94, per fathom each. The 100 end east is worth 104 per fathom and we worth 94, per fathom each. The 100 end east is worth 104 per fathom and we worth 94, per fathom each. The 100 end east is worth 104 per fathom we have cleared and secured the 60, west of incline shaft, and put down trannoad; we are now stoping the back of this level in a lode worth 84, per fathom. The 40 end west is worth 64, per fathom. A stope in the back of this level is worth 123, per fathom. We are rising the back of this level had belief to this engine, and good pitwork made complete to the 130; the ground above the 150 is exceedingly hard, but we are doing our utinost to make the communication between the 150 and the 130 as soon as possible. We have put in a good second-hand bolier to flind's engine; we have now four good boilers attached to this engine, and good pitwork made complete to the 130; we intend to set the engine to work be

price of tin.—W. RICH, M. ROGERS, W. RICH, Jun.

The CHAIRMAN pointed out that the loss upon the quarter would not have been so large had it not been for the extra cost in connection with the new pitwork and repairs to the boilers, and there had also been ad litional outlay in sinking the new shaft. The price of tin has been the lowest realised for the last nine years, sales having been made during the quarter at not more than 45t. per ton, although the last sale realised 50t. 5s. per ton.

The accounts were passed and allowed. A call of 3s. per share was made.

A vote of thanks to the Chairman and committee closed the proceedings.

| For remainder of Meetings see to-day's Supplement.]

ECHOES FROM THE MINING MARKET.

Tin continues in fair demand, but no further official change has taken

ECHOES FROM THE MINING MARKET.

Tin continues in fair demand, but no further official change has taken place in the Cornish standards. Shares are scarce, and quotations firm. The next Banca sale will take place on the 29th inst., when 22,900 slabs will be offered. The copper market has been rather less active, although copper shares have been well supported througout the week, whilst lead remains unchanged. The iron trade looks slightly healthier, but orders we hear are still of a very limited character. The principal demand is in sheet and galvanised iron. Coal is in better request, but no advance has taken place in quotations.

From Cornwall news of interest continues scanty. Wheal Cunning is to be prosecuted for one month longer. Three cross-cuts are being vigorously driven in the hopes of a discovery of importance being made. At Wheal Unity Wood an improvement for copper has taken place. There is a good report from Peccor, and the mine is looking well. Since the last meeting the sales of the ore and stuff have amounted to 760. Blencowe Mine—an adventure little known to public fame—has been sold to a local firm for 1725. South Crofty has just sold by tender about 70 tons of arsenic, averaging 8!. per ton. The best parcel made 8!. 8s. 6d., and the lowest 7!. 9s. The name of the successor to Capt. Hosking, of Dolcath, has not yet tray spired. Capt. Hosking, it will be remembered, was recently appointed toller to the extensive mineral estate of Mr. Basset, of Tehidy. We hear good news from South Condurrow. The mine is looking very well. The ground in the deep adit, north of junction shaft, is easy for driving, and it is expected the lode is close at hand. The last sale of tin realised 981!. (19½ tons).

A lucky hit has been made by two miners and a boy at South Caradon. In two months' working a pitch at 13s. 6d. in 1l. they have netted nearly 400!. No wonder working on tribute is a fassinating employment to miners. The pitch is now reduced to 2s. in 1l. The adventure has just given a dividend of 2!, per share (

the total debits have amounted to 2788', and the credits to 2271l. A loss of 517l was thus made, but a previous credit balance and a small item of 3l, for calls reduced the adverse balance to the sum named. The production of the has fallen off during the four months.

In consequence of the representatives of the late Earl of Landerdale declining to continue their interest in St. Ives Consols, it has been finally determined to windup the adventure. The property will first be offered as a going concern, and if not sold the pitwork will at once be drawn to surface, and the plant and machinery dispersed. We continue to hear excellent accounts of West Chiverton. The mine is doing very well. Sales are on the increase, and costs on the decrease. This will be pleasant news for the shareholders.

The evils of the Cost-book System, when it is administered in opposition to its guiding spirit, have been atrikingly shown by a recent circular issued by the purser of the Frank Mills Mine (Devon). Nearly two years ago—that is to say, in November, 1873—certain shares were forfeited for non-payment of calls. Nothing further was heard of the matter, we believe, until a few days ago, when each shareholder "an account," and demanding 1l. 0s. 6d. per share as his proportion of liability. In the so-called account—which, by-the-bye, is undated, norvouched for in any way, as no name or names of any kind appear upon it—the following are the items on debit side:—Balance to bankers, as per printed balance sheet, passed Sept. 9, 1873, 2268l.; dues, 213l. 13s. 9d.; cost-sheets to date, 397sl. 19s. 2d.; bankers' interest, &c., to date, 23sl. 10s. 2d.; coals and frights, 35ll. 4s. 9d.; law charges in connection with lease, 36l. 16s.; cost inspecting mine, 8l. 17s.; rent to Christmas, 1873, 19l. 1*s. 5d.; making together, 7111l. 18s. 5d. 0n the credit side there appears—Calls received to date, 1454l. 19s. 5d.; or sold to date, 119ll. 17s. 6d.; and sundry materials sold, 114l. 2s. 8d., leaving a deficiency of 4350l. 18s. 10d. The scanty items c

From Mr. ALFRED E. COOKE (78, Old Broad-street, London):—While prices in the Mining Market have been well maintained during the past week, business has been restricted and confined to narrow limits, in consequence of the absence of many operators during the holiday season. The market for all metals continues firm, and an increased amount of business may anrely be looked for in the course of the next two or three weeks. Everyone will have again settled down to business, and it is but reasonable to assume that a fair share of the enormous amount of capital lying idle will be invested in mines, where in many instances a larger percentage may be safely relied upon than is returned by any other security. In these columns it has, no doubt, frequently been remarked that it is not only by choosing shares in a dividend-paying properly that a good investment may be made, but by making an outlay in progressive mines, which often rapidly rise in value, and thus great profit is secured. A small capitalist, especially, has no other channel where he is likely in a very short time to double or treble his outlay. Even 20. invested now in mining might any day realise 40.; and where is there a security in which so small a sum can be laid out with such an opportunity of gain Indeed, mining is the legitimate source of fortune.

The notice last week in the Journal of the Nascent Copper Process will probably revive the interest shown at its first introduction. The Bampfylde Company has entered into a contract whereby reduction works will at once be erected on the mine, and the ores treated under the Nascent Process. It is estimated that at present there are from 80,000 to 100,000 tons of stuff containing about 3 to 17 per cent. of silver and 1½ per cent. of copper, which, without the introduction of this process, would be entire waste. It will be interesting to notice the progress of this system. Under the direct supervision of Dr. Emmens (the inventor) and Dr. Percent.

kins the Bampfylde shareholders may feel assured that the contract will prove of immediate benefit to them.

immediate benefit to them.

It is calculated that the net profits of the company will admit of a dividend of 10 per cent. upon the capital. This may also be considered a bonus, for the mine itself is opening out well (as will be seen by the report), and an advance in the price of copper will be a further advantage. The shares are so low (about 20s. to 25s.) that they offer an excellent speculation. It may be stated that at these prices they are very scarce, so that no time should be lost in purchasing. In lead mines Pateley Bridge will probably, ere long command much attention. These shares should not be overlooked, as an advance is nearly a certainty. Space will not allow me to continue my remarks, but advice on any property may be obtained on application.

COAL MINES REGULATION ACT, 1872.

EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY.

DISTRICT UNDER THE CHARGE OF THOMAS EVANS, Esq., H.M. INSPECTOR OF MINES.

PERSONS desirous of being EXAMINED in this District, for MANAGERS' CERTIFICATES OF COMPETENCY, under the abovenamed Act, should at once communicate with the Secretary to the Board of the above-mentioned district, at the following address:

By order of the Board,
WILLIAM SAUNDERS, Secretary,
Full-street, Derby.

N.B.—Persons who do not reside within the district are equally eligible for examination with those who do.

NOTICE.—ROYAL SCHOOL OF MINES,
JERMYN STREET, LONDON.
The TWENTY-FIFTH BESSION will BEGIN on FRIDAY, the 1st OCTOBER.
Prospectuses may be had on application. TRENHAM REEKS, Registrar.

ROYAL COLLEGE OF SCIENCE FOR IRELAND, STEPHEN'S GREEN, DUBLIN. SCIENTIFIC AND TECHNICAL EDUCATION

This College supplies a complete course of Instruction in Science, applicable to the Industrial Arts, especially those which may be classed broadly under the heads of CHEMICAL MANUFACTURES, MINING, ENGINEERING, and AGRICULTURE.

A Diploma of Associate of the College is granted at the end of the Three Years

Course.

There are Four Royal Scholarships of the value of £50 each yearly, with free ducation, including Laboratory instruction, tenable for two years. Two become acant each year. They are given to students who have been a year in the College. The Fees are £2 for each Course, or £10 for all the Courses of each year, with the exception of Laboratory.

CHEMISTRY (THEORYTICAL AND PRACTICAL) METALLIEGY, £6.—Professor. exception of Laboratory.

CHEMISTRY (THEORETICAL AND PRACTICAL), METALLURGY, &C.—Professor
GALLOWAY, F.O.S.

CHEMISTRY (HEGRETICAL AND PRACTICAL), METALLURGY, &C.—Professor HALLOWAY, F.C.S.

MATHEMATICS, MECHANICS, AND MECHANISM.—Professor HENNESSY, F.R.S.
DRAWING, ENGINEERING, AND BURWEYING.—Professor PIGOT, C.E., M.R.I.A.
EXPERIMENTAL PHYSICS.—Professor BARRETT, F.R.S.E., F.C.S.

MINING AND MINERALOGY—Professor O'REILLY, C.E., M.R.I.A.
AGRICULTURE—Professor DAYY, M.D., M.R.I.A.
BOTANY—Professor M'NAB, M.D.
ZOOLOGY—Professor LEITH ADAMS, M.B., F.R.S.
The Chemical and Physical Luboratories are open daily for Practical Instruction.
The Bession commences on Monday, October 4th.
Programmes may be obtained on application to the Secretary, Royal College of Science, Stephen's Green, Dublin.

FREDERICK J. SIDNEY, LL.D., Secretary.

OYAL CORNWALL POLYTECHNIC SOCIETY.
The FORTY-THIRD ANNUAL EXHIBITION WILL OPEN at the olytechnic Hall, Falmouth, on TUESDAY, September 14th—To Members, at leven A.M.; to the Public at noon.
The President (A. Pendaryes Vivian, Esq., M.P.) will deliver the Opening ddress at One o'clock P.M.

The Frestient (a. S.)

ddress at One o'clock P.M.

The Exhibition will open on the following days at Ten A.M.

EDWARD KITTO, Secretary.

BOWARD KITTO, Secretary.

PRISTOL MINING SCHOOL.

SOHOOL in a thoroughly efficient manner.

The Course of Instruction will prepare Students to pass the Examinations for Government Certificates as Mine Managers, and the following are the subjects to be taught:

MATHEMATICS AND THEORETICAL MECHANICS, by J. Welsh and W. F. Wood. DESCRIPTIVE GEOMETRY, MACHINE DRAWING, BUILDING CONSTRUCTION, APLIED MECHANICS, AND STEAM, by J. Munro, Associate of Royal College of Science and late of Avonside Engine Works.

and late of Avonside Engine Works.

EXPERIMENTAL PHYSICS, by Ernest Cook, Associate of Royal College of Science, CHEMISTRY AND METALLURGY, by T. Coomber, F.C.S., Head Master, late of Royal School of Mines and Royal College of Chemistry.

CHEMICAL ANALYSIS AND ASSAYING, by Herbert Munro, Associate of Royal College of Science, and Senior Chemical Scholar, London University, GEOLOGY, MINERALOGY, SURVEYING, AND MINING, by Ralph Tate, F.G.S., late of Royal School of Mines.

One day nor week is spent in the field.

One day per week is spent in the field or mine, and considerable time is devoted to the plotting of curveys.

The next Session commences on the 4th of October, 1875, and closes on the 24th

f June, 1876. Appropriate Courses of Instruction are also provided for those who are to be en-aged in the Management of Manufacturing, Metallurgical, or Engineering Ope-

rations.

Students under Fifteen Years of Age are not admitted.

The Tuition Fee is £10 per Session. The Entrance Fees are 2s. 6d. for Registration, and 10s. on admission. These Fees are inclusive, excepting for the Three Laroratory Courses of Qualitative Analysis, Quantitative Analysis, and Assaying. the Fees for which are £5 per Course.

The Laboratory is also open daily to the public for INSTRUCTION IN CHEMICAL ANALYSIS AND ASSAYING. The Fee for this Instruction is £5 5s. per quarter, dailing from entrance.

per quarter, dating from entrance.

For further information regarding boarding houses, or any other matter, apply to the Registrar, Mr. WILLIAM BARGE, Merchants' Hall, Bristol, who will enter Pupils and receive Fees.

TO MACHINISTS, BLACKSMITHS, QUARRYMEN, MINERS, &c.

F. J. MERRY'S

"RESTITUTOR CHALYBIS."

A valuable preparation for INSTANTANEOUSLY RESTORING to BURNT STEEL ITS LOST PROPERTIES, and rendering BURNT STEEL TOOLS, which would otherwise be waste, AS EFFECTIVE AS BEFORE. Price in tins, 35s. per gallon; in less quantities, 10s. 6d. per quart. carriage paid on all orders of two gallons, or above. Full instructions delivered with invoice. Address,— F. J. MERRY, 4, GLOUCESTER PLACE, SWANSEA.

THE PATENT GUNPOWDER COMPANY (LIMITED).

NOTICE TO MINE CAPTAINS AND ENGINEERS OF COLLIERIES

AND GRANITE MARBLE QUARRIES.

The POWDER of this company can NOW BE SUPPLIED. PERFECT SAFETY IN USE AND STORE.

Sample charges for trials and agencies granted on application to the Secretary t the offices of the company,— 6, GREAT WINCHESTER STREET BUILDINGS, LONDON.

LONGDEN'S LIST.

A N T E D: —

NON-CUPREOUS PYRITES.

ANTIMONY ORE—good.

MANGANESE—Ready for shipment. F O R

S A L E : -SILVER-LEAD SET 1400 tons of BLENDE, containing SILVER. LARGE LOT of NICKEL ORE, rich also for COBALT.

HENRY LONGDEN, MINING EXPERT, 18, COLEMAN STREET, LONDON, E.C.

BRYDON AND DAVIDSON,

WHITEHAVEN.

IRON AND BRASS FOUNDERS.

MAKERS of all kinds of BOILERS; PUMPING, WINDING, and HAULING ENGINES, and MINING MACHINERY generally.

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J. FLETCHER PAGEN, CHAPEL HEYS, NEAR BODMIN,

BUYER of GOOD QUALITY CORNISH or other IRON ORES.

FOR SALE, -BEVERAL VALUABLE IRON MINES, on easy terms, to bona fide investors. Full particulars on application. An Iron Mine requires less capital for development than any other Mine, and if properly managed is a permanent source of profit.

THE COAL TRADE.

Mr. J. R. Scott, the Registrar of the London Coal Market, has published the following statistics of imports and exports of coal into and from the port and district of London, by sea, railway, and canal, during August, 1875:—

IMPORTS.

By sea.

	Ships.	Tons.		MRI.
Newcastle	159	115,888	London & North-Western	Tons c.
Seaham	26	12,948		10,293 4
Sunderland	91	64,497	Great Western	82,527
Middlesborough	1	670	Midland	68,747 0
Hartlepool	79	24,393	Great Factory	120,664 0
Scotch		3,707	Great Eastern	49,643 2
5001011	11			
Welsh	15	5,474	London, Chatham, & Doven	
Yorkshire		4,963		
Smallcoal & cinders.	16	2,613	Grand Junction Canal	1,501 13 362 15
Total	425	235,153	Total	Charles Contraction of the Contr
Imports-Aug., 1874.	399	202,339	Imports -Aug., 1874	261 200
Cor	nnarativ	Staten	nent, 1874 and 1875.	001,238 7
by Se	Shine	Tons	By Railway and Ca Jan. 1 to Aug. 31, 1875 Jan. 1 to Aug. 31, 1874	nal.
Jan 1to Apr 91 1975	9744 9	084 484	Tan 1 to Ana 21 1077	Tons.
Ton 1 to Aug 31 1074	9406	790 880	Jan. 1 to Aug. 31, 1874	3,204,775
,		,,,		2,973,234
Increase-present year	r 340	343,602	Increase in the present year	
present jeu		EXP	DTS	231,541
Sea-borne coal exporte	ed to Britis	h posses	"through districtTons sions, or to foreign parts,	66,529
or to the coast	***************************************		39,6	399
Ditto, sent beyond lin	nits by ran	way	7,	150
Ditto, by canal and in	land navig	ation	i.	395= 48,844
Railway borne coalex	ported to	British p	ossessions, or to foreign	40,014
parts, or the coast .			16,	831
Ditto, by canal and in	land navig	ration		573= 18,404
Sea-borne coal brough	t into port	and exp	orted in same ships	
Total quantity of coal	conveyed	beyond	limits of coal duty dis-	546
trict during August.	1875	oog Dance .	or coar day dre-	10
Ditto, August, 1874		************		134,023
				142,288
Con	nparative	Staten	nent, 1874 and 1875.	
Total distribution of o	oal from J	an. 1 to A	August 31, 1875	1 151 000
Total distribution of co	oal from J	an. I to	lugust 31, 1874	1,151,860
				1,384,181
Increase in the pr	esent year	**********		67,670
(2	anomal &	tatama	at, 1874 and 1875.	01,019
	eneral B	utemen	u, 1014 ana 1010.	
Increase in coals impo	rted by sea	a during	the present year 343,	602
Increase in ditto by ra	ilway		231,	541=575,143
Deduct increase in cos	als exporte	edb		67,679
Total increase in trade	within Lo	ndon dis	trict during present year	507,484
			The same production year	001,461
		-		

MINING NOTABILIA

[EXTRACTS FROM OUR MINING CORRESPONDENCE.]

WEST CHIVERTON.—It will be seen by a short report from the manager of this mine, that the next sampling of mineral for four weeks will be equal to, if it does not exceed, the last, which realised 2000l.

RELISTIAN CONSOLS.—In the shaft referred to last week, to sink to the New Rosewarne copper lode, ore has been met with 3 ft. wide. The main operations of the company, however, will be to sink Duke's shaft to the junction of two lodes, one of which has produced very rich copper, and the other more than 3000l. worth of tin at the adit and 10 fm. levels. Duke's shaft is down 27 fms., and, in addition to all the necessary magninery, the company has 1700l. in hand.

FOREIGN MINES.

FOREIGN MINES.

ST. JOHN DEL REY.—The directors have received the following telegram from MorroVeiho, dated Rio de Janeiro, Sept. 5:—Produce, eleven days, second division, of August, 18,750 oits.—7285. Yield, 10-2 oits, per ton. All going on well.

DON PEDRO.—Letter from mine captain, Aug. 9: The ore returned has again been derived from the Canoa and Nos. 6 and 8 shoots. We have extracted 11 boxes of work during the week from No. 8 shoot, below the 30, which is of a low standard. We have also taken out 11 boxes of very low hox work from Bryant, on No. 8 shoot; the general work is of a low standard. The 35 cross cut is still in very soft ground, and very slow progress has been made during the week, in consequence of the present end letting out so much water, and bringing away a quantity of and with it. In the 25, driving north, on No. 8 shoot, the bottom part of it is in a very hard stone; we have been obliged to use dynamite on some cessions. The water being drawn from the mine amounts to 20-57 cubic feet per minute. Stoping has been continued without change. In our explorations nothing has been discovered to report.

RICHMOND CONSOLDATED — Cablegram from the mine at Eureka, Newada: Hall, London: Week's run, \$40,00. No. 2 furnace re-lined; starts to night.

INDEPENDENCE (Gold).—No change has taken place in the character of the work performed at the mine since last report.

Aug. 14, when good progress had been made with the erection of the new mill, the battery timbers being raised, framed, and bolted, the floors and platforms were being built, and the pinion gear start.

CAPE COPPER.—Capt. Tonkin, July 31: Ookiep: The 80 fm. levels have not not changed since last reported, and the beds of ground continue to run very flak, so that our progress in penetrating new layers is very slow. The winze sinking below the 68 has now reached a depth of 4 fathoms, and it continues very rich in the bottom. The yield being fully 8 tons of copper ore per cubic fathom. The 88, east from No. 13 winze, is now looking better than fo

the adit level is not opening out any ground of value, although at times we may lumps of copper or in the sinking. The level driving from the side of the shaft at Kilduncan is in hard ground, but the forebreast of the end shows fine patches of copper pyrites.

NARRAP MINE: At Narrap, the shaft has reached the required [depth for the 20 fm. level, and the men are at present engaged in fixing ladder-way, &c., preparatory to driving the 20 fm. level under the former workings. At the New Centre, behind Ezels Fontein, we have thoroughly exhausted the trials. The ore only made in a few irregular branches near the surface. In making a few remarks on the Orange River Mines, I may in the first place notice that at Kodas we have fully explored the ground in depth, and it is quite evident that the copper ore did not hold good much below the surface. In the present bottom of the mine there is no place which is worth further trial. At Numles, the ore only made in the soft ioints of the schistose rook, and in all cases it failed in depth.

Returns for July: Ookiep, 860 tons of 20 per cent.; Spectakel, 45 tons of 27 per cent.—Bila of Lading Received: 410 tons of copper ore, per Corsair; 600 tons, per Antonio Vincent; 190 tons, per Roman; and 190 tons, per European.—Arrial at Swannen: The Ocean King, with 550 tons of ore.—Sale, by public ticketing; 640 tons on Aug. 24, at an average of 163, 83/d. |per unit, realising approximately 16,000?.—Put forward for Sale; 620 tons on 14th inst.

MENZENBERG.—R. K. Roskilley, Sept. 8; The 45 cross-cut is driven west of Dickins's engine-shaft 39 fms. 4 ft., and here during the week excellent speed has been made, the men having driven it 9 ft.; the ground, which is composed of a very fine congenial killas, is letting out water freely, which is a good indication. This end is being proceeded with vigorously, so as to attain the St. Josephberg, or main lode, therefore all energy is being exercised in order to arrive at that point; price for driving, 60 marks or 32, per lachter. In the 45, which

the back of the intermediate level, above the adit, for ventilation; the lode yield a little saving work.

La Brousse: The 140 metre level, south of Basset's shaft, yields ½ ton of ore prourern metre. The winze ahead of this end sinking from the 120 yields ½ ton pretre. The 120 metre level south yields ¾ ton of ore per metre. The rise in the 100 south is unproductive. The rise in back of the 60, against the new shaft, has entered more favourable rock. The sinking of the shaft from surface is still in hard and wet rock. Our stopes and tribute pitches generally continue to yields well.—Pranal: The 90 metre level, south from St. George's shaft, yields ¾ ton of ore per metre. The same level north yields ¾ ton per metre. The 70 level new opens tribute ground. The same level south is poor. The 50 metre level south yields stones of silver-lead ore and blende. In the 50 north we have set to create out west to intersect veins lying in that direction. The 30 metre level south yields

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48,814 18,404

134,023 142,288

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GEOLOGICAL SURVEY OF INDIA. THE GOLD FIELDS OF SOUTH-EAST WYNAD,

The GOLD FIELDS OF SOUTH-EAST WYNAD.

The attention of the Madras Government having been again called, after a lapse of nearly 42 years, to the occurrence of gold in the Malabar district, it was considered advisable that an examination of the country should be made by the Geological Survey of India. As it turns out that the area over which the auriferous deposits and quartz reefs extend is so large that a considerable period of time must elapse before a full report on the whole district can be made, Mr. Wm. King, B.A., the deputy superintendent of the Survey, Madras, has prepared a preliminary note on the Gold Fields of South-East Wynad, and has favoured us with a copy, from which we are enabled to give a large amount of interesting information. The intermediate elevated terrace of mountain land lying between the low country of Malabar, the loftier plateau of the Nilgiri mountains, and the Mysore territory, called the Wynad, has been conveniently separated (principally by the coffee planters) into three divisions—North, South, and South-East Wynad—and these larger areas are again parcelled out after a native classification into amshams. South-East Wynad includes among others the Nambalicode, Moonsd, and Moophianad amshams, the latter being the most north-westerly of the three, and touching on South Wynad, or that in which the central village of Vithery is situated. Manantody, the principal town of the plateau, is in North Wynad. This mountain terrace has an elevation on an average of about 3000 ft., but out of it rise peaked ridges and hills of considerably greater heights, varying from 3500 to nearly 7000 ft. above the sea. A good deal of misconception appears to exist as to the healthiness of Wynad. As far as his own personal experience goes, the climate from the end of September to the middle of January is tolerably well adapted for Europeans, and he is informed by planters that it is even healthier from May to September, so that there are only three months in the year when the country is not healthy. Many p

have remained with their wives and families for two or three years continuously.

The Malabar district has been famous for gold from time immemorial. Gold is still washed for in the low country and in Wynad, and it used to be got in old days from quartz leaders in the hill country around Dayvallah, Nellialum, &c. Two tribes of people obtain the gold. The Pannirs wash for it in the alluvium, surface soil, and river sands. The Korumbars dug down to and excavated the quartz leaders. Tradition says that large finds of golds have been made at odd times by the Korumbars. The Pannirs rarely find more than four annas worth of gold in a day each man. The latter only now wash for gold in the off season when they cannot get work in the coffee gardens at five annas a day. In 1793 the gold mines of Malabar appear to have been noticed by the then Governor of Bombay, who tried to get information on sech man. The latter only now wash for gold in the off season when they cannot get work in the coffee gardens at five annas a day. In 1793 the gold mines of Malabar appear to have been noticed by the then Governor of Bombay, who tried to get information on the subject, and they were formed by the Madras Government in 1803. In 1831, on the report of Mr. W. Sheffield, principal collector of Malabar, Lieut. Woodly Nicholson was deputed to explore the country, with a view to the development. He visited the Nambalicode amsham, examined all the old workings of the Karumbars on the Chulaymullay, near Dayvallah, and obtained gold from the surface washings in the same neighbourhood. He also visited all the known gold localities in the low country of Malabar. He does not seem to have thought much of Dayvallah, and the gold obtained was not so pure as that from the plains. His acquaintance with the practical business of the matter, and his knowledge of the geological structure of the country, were very poor, but his perseverance at the work was marvellous. A committee was then appointed, consisting of Mr. F. Clementson, Major A. Ross, and Dr. F. W. Ward, who practically condemned the working for gold as an European industry in the low country of Malabar. Mr. King's own examination of the plains has as yet only been a cursory one, but, without going so far as this decision, he is inclined to agree to a great extent with it, more especially as it would appear from what is now known that there is sufficient evidence to show that European energy is more likely to meet with success in the Wynad.

About 10 years since Mr. Stern, of Australian experience, prospected at Wynad, and made trial of the alluvial deposits, of which there are several in the form of flat swampy land along the courses of the streams. He tried near Dayvallah by sinking pits to bottom rock and always got gold, but not in sufficient quantity to make it worth while continuing his work. Within the last year or so attention was again called to the occurrence of

the country until he was convinced that nothing was to be done at alluvial and surface washing. He then explored the old pits and workings of the Korumbars, and finally settled on a quartz reef—the Skull reef—in which he found visible gold. The Alpha Gold Company was then started, the prospectus of which states, on the authority of "the company's manager, and two of the directors, who have had much experience of quartz reef mining in Australia," that the stone will yield about 1 oz. of gold to the ton of quartz. The most common mode of gold in South-East Wynad is naturally in the recent deposits, such as the surface soil on the hill sides, the stream sands and gravels, or the true alluvial flats, but the quantity of gold found is in all cases small. The surface deposits are too small to justify hydraulic sluicing. The largest known fragment of gold found within the last few years in Wynad weighs over 7 dwts., but it contains some quartz; it is of pale colour, and is not much rolled; in fact, it has evidently not been washed far from the Present reef, and has not been subjected to that exposure and attribute which we have the surface of the present reef, and has not been subjected to that exposure and attri-

much rolled; in fact, it has evidently not been washed far from the present reef, and has not been subjected to that exposure and attrition which seem necessary for the production of the finally purer metil usually obtained from alluvial washings.

A somewhat different mode of occurrence of the gold dust (not in polkets or at the bottom of lighter and permeable materials) and system of washing adopted (surface scrapings only being sifted) is observed in Wynad from what is known in Australia and California. In certain parts of Wynad and more particularly around Sultan's bittery, or in the neighbourhood of Manantoddy, the valleys are filled in with extensive and thick alluvial deposits through which the attempt the streams, almost immediately after they leave the steeper hill

THE MINING JOURNAL

sides, often puress a long and derious come, on become lost for a top of the second to the post of the time is not emilician. To pay for washing. The next corne of Wyrad gold is the matrix or the quattr veins, and to a nave worked the senalize and more caselly bocken up your soften to a depth of 60 or 70 ft. The western slopes of unany of the hilts in an array of the senalize and more caselly bocken up your soften to a depth of 60 or 70 ft. The western slopes of unany of the hilts in warrans with pie. Extensive studing operations paper to have been carried on. According to every information that is to be out at present it is only known creatistly that they or ways storag and numerous in South-East Wynad. In the Nambalicode annahum there are a lase, all Penfs, nume of which are analizeness; and the senalized paper to have been carried to the Mondia analysm. Still fortune westward at least 24 more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of Pandiahu having at the self-more reefs, those in the neighbourhood of pandiahum having at the self-m

THE MOTALA IRONWORKS, SWEDEN.

These well-known Swedish ironworks, for the produce of which Messrs. Lander and Larsson, of Newhall-street, Birmingham, are the authorised agents in this country, are situated on the Götha Canal, about 25 Swedish or 165 English miles from Stockholm; they have now been established about half-a-century, having been erected in the year 1822 by an Englishman, Mr. Fraser, principally for the service of the Götha Canal; and they have now attained the first rank of importance, not only in connection with that canal, but also for the whole of the iron trade of Sweden.

The works are erected on an island, so to say, between Lakes Boren and Vettern, on the east and west respectively, formed by the Götha Canal on the north, and the Motala river and falls on the south. The distance between the lakes is very little short of four English miles, being 6400 yards, and the site is considered as one of the most picturesque in the country. In the vicinity of the works are situated the locks of Borenhult, by means whereof the canal falls as much as 50 ft. towards the lake. About two miles off is the village and station of Motala, the village having a population of about 1600 in habitants, with various industrial works lying between it and the canal, such as the Motala Stoneworks, where a kind of artificial sandstone is manufactured, the Motala Paper Mills, the Motala Matchworks, a nail manufactory, and other establishments of minor importance. The station of Motala is on the main line of railway leading to the Vettern Lake district, and there are a little further on the line two very fine bridges, about 1300 ft. in length. A branch line connects the Motala station and the village with the ironworks. These ironworks are in the hands of a large company of about 600 shares, the largest shareholders being His Excellency Count Platen, Lady Friesendorff, Sir — Manderstrom, Messrs. Robert Axel and Oscar Dickson. The buildings comprise large factories, fitting and erecting shops, forges and hammer works, rolling mills, foundries, pattern

connery is mainly worked by hydraunic power, the water supply being unlimited, with a good fall, and derived from the Götha Canal, which at this point is 39 ft. above the level of the River Motala. Under the management of the former skilled engineer, Capt. Carlsund, the Motala Ironworks obtained considerable repute both at home and in foreign countries. The present managing director is Capt. E. Unge, and the company are also the proprietors of the Nykopings Ironworks and the Lindholmans Works at Gothenburg, where the Ironworks and the Lindholmens Works at Gothenburg, where the steamers are mostly built for the coasting trade of Sweden. They manufacture all kinds of heavy ironwork, castings, forgings, mili gear, also plates, rails, Bessemer steel, and marine steam-engines. We understand that all the monitors, turret ships, and ironclads of the Swedish Navy, besides several others for foreign Governments, have been built and engined at this company's works at Norrikoping.

have been built and engined at this company's works at Norrköping.

The gross annual value of the finished products of these works was in 1870 about 2½ millions of riksthalers, Rmt. (say, 140,000.), and the number of workmen employed is about 2000. Over and above the works and machinery at the ironworks and docks, a special object of interest and study is to be found in the industrial dwellings, schools, hospitals, &c., for the workmen, which have an important

schools, hospitals, &c., for the working, which have an important social and industrial bearing and effect.

The following are particulars of the results of experimen'al tests made by Mr. David Kirkaldy, to determine the mechanical projeties of bars and plates of soft steel and iron from Motala. In each case two bars of six different qualities, in length 10 in., and having the state of the st a sectional area of one square inch, were tested under tensile and

	TH TEL	usion.	
	Maximum.		Minimum.
Elastic stress, per square inch	32,350 lbs.	******	24,350 lbs.
Ultimate stress, per square inch .	63,412 lbs.	******	46,024 lbs.
Ratio of elastic to ultimate	56.2 per cent.		
Contraction of area at fracture .	59.8	******	49-1
Extension, 40,000 lbs. p. square is	n. 8.59	******	2.19 "
Ditto ultimate	31-9		26.0
Depression, 35,000 lbs. p. square i	n. —		
ditto ultimate			-
	In Com	press	ion.
	Maximum.		Minimum.
Elastic stress, per square inch	35,050 lbs.	*****	
Ultimate stress, per square inch .	49,225 lbs.		35,605 lbs.
Ratio of elastic to ultimate			65.8 per cent.
Contraction of area at fracture			- Per contr

locality, size, thickness, and dip of at least a score of the out-croppings discovered and examined by him during the past few months. They vary in thickness from a few inclies to 50 ft., the average of those reported being nearly 8 ft. The dipactive to the cast or to the west, while the strata cross the country from north to south."

From these data it is held to be probable that this Puyallup region is either the eastern out-cropping of a large basin lying on the west, or else an intermediate "principal autherimal axis" lying between two sub-basins. In either case it seems the country from north to south,"

From these data it is held to be probable that this Puyallup region is either the eastern out-cropping lead to the same and the country of the country of

of 228,959 square miles of coal measures. These measures range from 3000 it. in thickness, with 70 ft. of coal in the anthractic basins in Pennsylvania to a few feet in thickness, and a few inches of coal in the Michigan basin. The aggregate area is greater than that of the New German Empire (225,000 square miles), which supports a population of over 40,000,000.

NEW CONCENTRATOR.—In the machine invented by Mr. W. B FRUE there is an endless india rubber belt with raised sides, to which is given a quick lateral motion and a slow movement up an incline of from 6 in. to 12 in. The ore is fed on the belt with water by a spreader near the upper end. The tailings or lighter portions pass down the belt, and are carried off at the lower end, through the box, as shown. The quick lateral motion keeps the ore on the belt agitated, so as to allow the mineral or heavy parts of the ore to settle through the pulp to the surface of the belt, where it is carried up the incline over the head of the machine and into a tank of water through which the belt travels, depositing the concentrated material. The belt is 40 in. wide, and 27 ft. 8 in. in entire length The capacity of each machine is from 7 to 8 tons a day, and one-half horse power is required to operate it. It needs but little water, and one man can attend to six or sever machines.

or seven machines.

HOLLOWAY'S PILLS AND OINTMENT.—Sick headache and various nervous lisorders are remarkably likely to occur at this season of the year, for searoely any function of the human body escapes some inconvenience when fervent heat during the day is succeeded by offilly evenings. The liver, the brain, and the skin are the organs most susceptible of being affected, and if either the one or the other meso, the others almost invariebly sympathies and show evidence of their sympathy; hence it is that sick headaches, biliousness, pimples, blotches, &c., are so frequent during the late summer months. The ointment should be rubbed perseveringly into the region of the liver, and the pills simultaneously taken internally, will soon rectify the existing mischief.

Registration of New Companies.

The following joint-stock companies have been duly registered:—

NINE CHURCHES IRON COMPANY (Limited).—Capital 30,000L, in 5L shares. To carry into effect an agreement made between Wordsworth Harrison, of the Lund, Ulverstone, J. H. Pedder and William Pedder, of Londen, and S. Saurey, of Ulverstone, of the one part, and C. Row, of Ulverstone, for the acquisition of mines at Nine Churches and Lower Heyford, Northamptonshire. The purchase-money is to be 15,000. The subscribers (who are to take I share each) are—Richard Duke, Claughton, Birkenhead, solicitor: G. Bargate, Barrew, ironmerchant; C. F. Pearson, Golborne Park, Newton-le-Willows, mining engineer: J. W. Crossley, Dalton in Furness, ironmaster; W. Harrison, Ulverstone: A. B. Salmon, Ulverstone; and J. S. Saurey, Fell Side, Pennington. Messrs. W. Crossley, Richard Duke, and F. Pearson, will be directors so long as they like to retain office.

81. WINIFRED LEAD MINING COMPANY (Limited).—Capital 20,000L, in 1L shares. To carry on lead mining operations, but no locality is given. The subscribers are—J. Caulfield, Leannington place, Old Trafford, wine msrchant, 80; J. Gill, Church street, Manchester, woolen and cotton merchant, 100: F. Olive, Castle Daly, Westmeath, distilier, 100: W. Olive, 5, Beriford-terrace, Bedford; W. J. Butcliffe, 50, Upper Brooke-street, Manchester, accountant, 20; Robt. Weare. Higher Boughton, Manchester, engineer, 6; and Robt. Plumb, Oakheld House, Birkenhead, 6. This company is registered without articles.

CWMBYR MINING COMPANY (Limited).—Capital 25,000L, in 10t. shares. To purchase the Cwmbyr Mines, in the parish of Machynlicth and Penegoes, Montgomery, according to the terms of an agreement rnade between James Vaughan, Wm. Spooner, R. W. Hand, and the Hon. H. B. Johnstone and Matthew Folint Blackstone, of Stafford. The property has hitherto been worked upon the costbook system, but its purchase has been now effected for 15,120. The subscribers, who take one share each, are H. B. Johnstone, 8, Seamen's-place, Mayfair; Col. James V The following joint-stock companies have been duly registered:

Carrer, Clitton vinas, Croydon, J. A. Chapman, J. Carlot, Carrer, Street.

CRYSTAL PALACE HOTEL COMPANY (Limited).—Capital 25,000l., in 500l. shares. This appears to be a re-construction of the Masters Royal Crystal Palace Hotel Company (Limited). The subscribers are—F. J. Holland, The Hermitage, Upper Norwood, 2; T. J. Jones, Upper Norwood; John Smith, Biandon Villa, Upper Norwood, 2; J. B. Yonge, Otterbourne House, Winchester, 1: W. M. Bimons, Sydenham Hill, 2; E. Ogle Contra, Upper Norwood; and M. J. Nicolson, 13, St. Anbya-road, Upper Norwood, 2.

MEDICINAL SOAP COMPANY (Limited).—Capital 25,000l., in 10l. shares.

13, 8t. Auhyn's-road, Upper Norwood, 2:

MEDICINAL 80AP COMPANY (Limited).—Capital 25,000l., in 10l. shares.
To manufacture 104P.
OLIVE MOUNT MILL COMPANY (Limited).—Capital 25,000l., in 6l. shares.
To acquire the Olive Mount Mill, Whittlefield, Burnley. The subscribers (all of Burnley, who take one share each are—J. Stanfields, H. Barlow, J. Baron, J. Walmeley, H. Wignale, C. Farrer, and R. Holden.
OLDEN BURG FUEL COMPANY (Limited).—Capital 12,000l. in 10l. shares.
To acquire peat or turf pits in the Grand Duchy of Oldenburg.
FALSWORTH LAND, BULLDING, AND INVESTMENT COMPANY (Limited).—Capital 40,000l. in 100l. shares. The subscribers to this company are—William Hutton, Bath street, Oldham, 10; J. Bottomley, Oldham, 10; J. Taylor, Fallsworth, 10; J. Greenhalf, Oldham, 10; J. Bottomley, Oldham, 10; W. H. Hirshaw, Hollinwood. 10; W. Nuttall, Oldham.
EXPORT AND DISTRICT BRICK AND COAL COMPANY (Limited).—Capital 20,000l, in 10l. shares. To purchase brick and tile works, and to establish an export and district coal trade. The subscribers are—Joseph Boam, Southfields. Ledester, 30; J. Kingston, Peterborough, 30; W. Marsh, Peterborough, 30; W. Watson, Lynn, 15; E. Greenwood, Ledester, 30; J. Roberts, 22, Old Market, Wisbeach, 1; J. Crease, Peterborough, 10 of Lengther, 100. E. Iddon Southnort. 50: P. Bell Royal Exchance. Manuschetter.

54. shares. To acquire land at Formby. The subscribers are—R. Bentinck, uthport, 100; E. Iddon, Southport, 50; P. Bell, Reyal Exchange, Manchester; J. Parker, Southport, 50; J. Witham, Lord street, Southport, 50; A. Lard

In 54. Shares. To acquire land at Formby. The subscribers are—R. Bentinck, Southport, 100; E. Iddon, Southport, 60; P. Bell, Royal Exchange, Manchester, 100; J. Parker, Southport, 50; J. Witham, Lord street, Southport, 50; A. Lard, Southport, 50.

BARROW AND CONTINENTAL STEAM SHIP COMPANY (Limited).—Capital 100,000£. in 10ℓ. shares. To carry on business as shipowners, &c. The subscribers are—Richard Clay, Kosebank, Hampton Court, I; H. Whiteside, Rawlinson street, Barrow, 15; W. Gledell, Roose House, Barrow; H. Stuart, West Mount, Barrow, 1; J. Waddington, Barrow, 1; B. Longbottom, Mossfield Roose, Barrow, 1; T. Stuart, Barrow, 1; Shares. This company's title explains its object. The subscribers are—Walter Smith, Southport, 100; J. Bradbury, Southport, 50; T. Fisher, Southport, 50; T. P. Griffiths, Southport, 50; Southport, 50; T. Fisher, Southport, 50; T. P. Griffiths, Southport, 50; Southport, 50; T. Fisher, Southport, 50; T. P. Griffiths, Southport, 50; Southport, 50; T. Fisher, Southport, 50; T. P. Griffiths, Southport, 50; Boothroyd, Southport, 50; T. Fisher, Southport, 50; T. P. Griffiths, Southport, 50; Boothroyd, Southport, 50; T. Fisher, Southport, 50; T. P. Griffiths, Southport, 50; Boothroyd, Southport, 50; T. Fisher, Southport, 50; T. P. Griffiths, Southport, 50; T. Southport, 50; T. Fisher, Southport, 50; T. P. Griffiths, Southport, 50; T. Southport, 50; T. Fisher, Southport, 50; T. P. Griffiths, Southport, 50; T. Fisher, Southport, 50; T. Southport, 50; T. Fisher, Southport, 50; T. Southport, 50; T. Fisher, Sou

CORNISH MINE SHARE MARKET.—Tin shares continue scarce during the week at quotations, in consequence of holders having increased confidence in better prices for tin at no distant date, smelters offering, as we are informed, two above the present standards to the mines. The tin market is steady, and prices are keeping firm. Capitalists are beginning to invest in this great industry, which offers, besides the inducements of dividends, the chance of doubling the principal. The following are the closing prices:—Carn Brea, 46 to 47; a good business has been done. A rise in tin would give these the greatest rise of any shares in the market. Cook's Kitchen declined to 1½, 8, but have again advanced to 8, 9, closing 14½ to 15½; it is not yet known who will be appointed here in the room of Capt. Hosking, who has been appointed toller to the Tshidy estate. East Lovell, 7½ to 3½; North Busy, 8 to 9. Killifreth called 10s. to 15s., the meeting will be held on Friday, when a call will probably be made. Providence nothing doing, shares called 3 to 4; at the meeting, on Taesday, a loss of 518′. was shown: the agents expect to show, however, a better state of affairs next time. St. Ives Consols adventurers have resolved to wind this old mine up; it is probable that another company will be found to take it. South Carn Brea, 38b. 208. South Frances called 2 to 3. Tincroft have been moderately dealt in, and close firm, 23 to 24. West Basset steady, and enquired for a 6½, 6½. West Wheal Seton, 35 to 31; a few shares have advanced to 2½, 23½, at which they close. West Tolgus enquired for at 5½ to 54. Wheal Basset steady, and enquired for at 6½, 6½. West Wheal Seton, 35 to 31; a few shares have changed hands, but the fimarket is limited for them. West Frances in demand, and advanced to 8, 8½, at which they close. West Tolgus enquired for at 5½ to 54. Wheal Seton, 35 to 31; a few shares have changed hands, but the fimarket is limited for them. West Frances in demand, and advanced to 8, 8½, at which they close. West Tolgus enquired for

BALE OF MACHINERY.—The machinery and materials at Blencowe Mine were knocked down at public auction to Messrs. Harvey and Co., for 1725.

CHINA CLAY IN THE WEST.—At the Pendeen Society's exhibition last week, a sample of china-clay from Balleswiden Common was sent by Mr. E. Borlase, the quality of which was good, and it is to be hoped that a new and profitable industry may arise out of the discovery of this valuable article in the district.

SOUTH CARADON—LUCKY TRIPUTERS.—Two miners and a boy took a pitch in somewhat neglected ground, at 13s. 6d. in 1/L. tribute, and during their "take" (two months) they will carry out of the counting-house about 400/L. The same men are now working the pitch at 2s. in 1/L., and will again do well at that re-

men are now working the pitch at 2s. in 1l., and will again do well at that reuluced tribute.

SOUTH CARADON.—The shareholders of this old and rich mine are to be congratulated on the prosperity which follows this undertaking year after year. A new
feature has been introduced, which, it is anticipated, will considerably increase the
returns—the working of the West Caradon Mine in conjunction with that of South
Caradon; and it was announced at the quaterly meeting on Tuesday at the sett
had been executed, and operations would be commenced without delay. At the
meeting on Tuesday a dividend of 2l. per share was declared, amounting to 1024,
and paid on account of engine, pitwork, &c., at Rule's south shaft 500l., and a
balance of 204d. carried to the credit of the next account.

EAST POOL.—It is stated that at the coming account the profits for two months
will be shown to be about 2000l., notwithstanding the low price of black tin.

CORNISH COPPER MINES.—It is probable that increasing attention which will
render the poorer sections of the copper lodes profitable for working. It is stated
that the treatment of the ores raised at New Consols and Holmbush by the Nascent
process is proving a complete success. From 8 to 9 tons of precipitate per month
are now being made from ores that were previously thrown away, the price realised for the precipitate being about 70l. per ton. It is well known that in many
of the abandoned copper mines of Cornwall large quantities of copper ores of a low
pero nage are discovered, but remain unaworked, but with the extraction of the
copper by this process they would be likely to prove a commercial success. It is
count mplated to re-work some of the mine that were abandoned about 50 years
since, and, in addition to the raising of copper ores of the ordinary quality, to proseed, by the Mascont process, with the extraction of the copper ontained in the

poorer sections of the workings. It is believed that, with judicious management and an adequate capital, many of the old mines will pay for re-working.

MINING NOTES.—At South Condurrow, Capt. Rich reports that the ground is easy for driving the deep adit, north of junction shaft, and they think the lode is very near. At Cathedral Mine, Capt. Michell reports that they have discovered the Wheal Hope lode, one of the champion lodes of the district, and it will be reached in a few fathoms further sinking. At East Basset, Capt. R. Pryor reports that the men driving the 30 cross cut are making fair progress, but have no indications as yet of the lode. Pedn-an-drea Mine has sold 10 tons 17 cwts. of black in, at 50., per ton. South Condurrow sold on the 28th ult. 19 tons 12 cwts. for 2811. Wheal Uny sold 11 tons 12 cwts. for 5671.

THE TIN STANDARDS.—On Aug. 31, the tin standards again advanced 2s. per cwt., and are now as follows:—Common, 80s.; refined, 81s.—West Briton.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES,

ABERDAUNANT.—5. Toy, Sept. 8: Setting Report: To sink below No. 1 adit level, at N. 10s. per fathom for the month; the lode at present is not so good as it was last week; it is now worth M. per cubic fathom for the month; the lode here has fallen off in value, and is now worth M. per cubic fathom for the month; the lode here has fallen off in value, and is now worth M. per cubic fathom for lead.

BAMPFILDE.—J. Juleff, H. T. Haley, Sept. 9: We are pleased in being able to say the 112, west of No. 4 shaft, is looking well, and worth 15. per fathom. The 112 west is producing good copper ore, and worth M. per fathom. The rise above the St. per fathom. The lock in the winze sinking below the St atill maintains its size and character, belog over \$1 tt. wide, producing yery strong mundic and good stones of ore, altogether of a very kindly appearance. The lode in the stopes in the back of the shallow levels is looking well, and producing the usual quantity of arsenical mundic. All other points of operations are without change.

BEDFORD UNITED.—W. Phillips, Sept. 9: We shall not take down the lode in the different levels until next week. The shaft and operations in connection with it are being pushed on with all speed, and are near completion. We shall operate upon the lode next week, and from present appearances shall be able to give a very favourable report.

BOG.—W. T. Harris, J. Barkell, Sept. 8: Having pretty well cleared the bottom levels of stuff, we shall now commence patting in penthouse, &c., preparatory to sinking the engine-shaft below the 175 fm. level. The 175 fm. level west, on mine lode, is producing some nice stones of lead, and very promising for an improvement. This same level, driving east on south lode, is now worth 2 tons of lead per fathom. We have commence of clearing the 185 east, on the south lode, and hope shortly to be in a position to res

and ago, durogress is being made in driving. The lode in the 11 west is disordered by a cross head or branch; this I expected to meet with, judging from what I have seen in the level above, just over this point; there is still a little lead ore in the lode, and I hope to see better results after we get out of the influence of this disordered part.

CATHEDRAL.—Joseph Michell, Sept. 9: The various points of operation are yielding their usual quantities of copper. A decided improvement is taking place in the lode in the engine shaft; the hard bar of ground having been passed through, the lode is getting larger and richer. All work going on satisfactorily, and the machinery in excellent order.

CRENVER AND WHEAL ABRAHAM UNITED.—Wm. Thomas. S. Arthur, Sept. 8: Sturt's Engine-Shaft: In the 228, driving west, the lode is 3 ft. wide, producing copper ore to dress. In the 216, driving west, the lode is 2½ ft. wide, producing copper ore to dress. In the 216, driving east on the south lode, and west of shart the love to the 220 the lode is 4 ft. wide, yielding a little copper ore, and having a very kindly appearance. In the 220, driving east, the lode is 5 ft. wide, and will yield 5 toos of copper ore per fm.—Blewitz's Shaft: In the 228, driving west, the lode is 3 ft. wide, yielding a little copper ore, having a kindly appearance. In the 220, driving west, the lode is 3 ft. wide, yielding 1 too of copper ore per fm.—Blewitz's Shaft: In the 228, driving west, the lode is 3 ft. wide, yielding 1 too fo copper ore per fathom. In the 200, driving west, the lode is 3 ft. wide, yielding 1 too fo copper ore per fathom. In the 200, driving west, the lode is 3 ft. wide, yielding a little copper ore, having a kindly appearance. In the 210, driving west, the lode is 3 ft. wide, yielding a little copper ore, having a kindly appearance. Or work of the 200 the 20

from the mines this week. The aggregate value of the workings amounts to 50 tons per fathom.

DUBBY SYKE.—Wm. Tallentire, Sept. 3: There is no alteration in the cross-cut at Dubby Syke level yet; the men are making very fair progress in driving, considering its hardness.—Shooting Box Level: We have almost got through where the level was closed, and can see over the rubbish, and the level is standing now opened out about 180 fms. There has not much been done at the shop this week, but the stable is roofed, The new road has been covered for 200 yards with

week, but the stable is roofed. The new road has been covered for 200 yards with cuttings.

DYLIFFE.—E. Rogers, Sept. 8: There is nothing new in any of our different points of operation. A setting report shall be sent you next week. We sold last Wednesday 80 tons of ore to Mr. G. Burr, realising 1180.

EAST BASSET.—R. Pryor, E. Adams, Sept. 8: The lode in the stopes in the back of the 50, at flat-rod shaft, has improved a little during the past week, being now worth fully 28t. per fathom for copper. There is no other change throughout the mine on which to report. We have at surface about 24 tons of good copper ore, and shall draw to surface during the week about 5 tons more.

EAST CARADON.—Jumes Killow, Thomas Trelease, Sept. 8: Caunter Lode: In the 130 east the lode for the part carried is composed of mundie, peach, and quartz, with spots of ore intermixed. In the winze sinking below the 115 the lode is of a similar character, but wet and troublesome for sinking. The men are sinking in the bottom of midway, on the branch, for ventilation (near the end), where it will yield 1 ton of ore per fathom.—Marke's Lode: In the 60 and 72, driving east, the lode is about 2 ft. wide, composed of quartz, gossan, &c., intermixed with spots of ore. The ground in the 72 cross-out north is granite, and in the 130 cross-out, south of Williams's shaft, it is granite, and favourable for driving.

EAST CHIVERTON.—R. Southey, Sept. 8: We shall commence sinking the engine-shaft for bearers and cistern below the 64 next Monday; when this is completed it will be necessary to make some alterations in the pitwork, which will necessitate some little delay, after which the sinking will be reasumed with all possible dispatch. Judging from the othannel of ground passed through in the 35, we are daily expecting easier ground in the 64 cross-out north, when greater speed will be made in cutting the lode, which is being looked forward to with great in-

we have two very important points to come off shortly, which I have great heps will be attended with profitable results.

EAST VAN.—W. Williams, Sept. 8: The new shaft is down 8 fms. 4 ft.; set to nine men, at 260s, per fathom. The shallow adit level (for draining the surface men, at 260s, per fathom. The shallow adit level (for draining the surface men, at 260s, per fathom. We have crossed several very nice strings or fives from stet of leading the shaft; set to six men, at 50s, per fathom. We have crossed several very nice strings or fives from stet at 90s, per fathom. Four of these are now engaged driving the shallow adit, but as soon as that is completed they will return to their places.

EAST WHEAL GRENVILLE.—E. Hosking, W. Bennetts, Sept. 4: Thereis ochange to notice since our last.

EAST WHEAL GRENVILLE.—E. Hosking, W. Bennetts, Sept. 4: The stope below the 12: west is worth 5i. per fathom. There is no change to notice lin the 312 orcas cut north. The stope above the 110 east is worth 6i. per fathom, The rise above the 46 east is producing good stones of copper ore. The lode in the 34 fm. level, west of cross-out, is 12 inches wide, of a kindly appearance, and producing a little ore.

FEANK MILLS.—James Rowe, jun. N. Addems. Sept. 9: The south of the first and the state of the

120 cross-out north. The stope acouse in the tax is worth or, per fathom, The rise above the 46 cast is producing good stones of copper ore. The lock in the 3f fm. level, west of cross-out, is 12 inches wide, of a kindly appearance, and producing a little ore.

FRANK MILLS.—James Rowe, jun., N. Addems, Sept. 9: The engine-shift is sunk 10 fms. below the 145. We purpose sinking 2 fms. more on the cross-out west to intersect the western lode. The castern lode in shaft is producing a little lead, and improving as we are nearing the junction of the cast and west lode. We have commenced to sink a winze in the bottom of the 145, on west lode, which is producing good stones of lead. The ground in the 115 cross-out, west of engine-shaft, is more favourable for driving. At the 60, north of engine-shaft, we are driving towards the Exmouth Mine under the lode. We shall drive about 3 fms. more and then out through the lode. The 60 is being driven north of cross-out south of Orchard air shaft, on eastern branches, which are producing a little lead, and looking favourable for an improvement soon. We have about 4 fms. more to drive to get under the run of ore ground gone down in the bottom of the 45. The 46 driving north of No. 1 cross cut, south of Orchard air shaft, on eastern branches, is producing 10 cwts. of lead ore per fathom. We are opening up a good section of ground here, which will set at a low tilonte. At the 30, north of engine-shaft, we are cross-cutting west to intersect one of the western lodes, on which consider able quantities of lead have been raised further morth. We have nine tribute pitches working by 24 men at an average tribute of 71. per ton. These tributes are earning fair wages. We are preparing floors, &c., for Dinger's pulveries, which we hope to have working in a short time. Machinery and pitwork in good working order.

GAWTON COPPER.—G. Rowe, G. Rowe, jun., Sept. 4: The lode in the 117, east of King's engine-shaft, is showing a very kindly appearance, producing 36 san ore and mundic per fathom.

GOGINAN AND LEVEL NEWYDD.—Sept. 6: Bryn Pica shaft is being sank with full force by nine men, and every effort used to get it down as quickly as possible. The turbine, hauling gear, &c., with all its connections at the 60, has been completed, and the same set to work, but the present supply of water is insufficient to draw from the 110, and we are now busily engaged putting in pipes, &c., to get more water down from surface, and also making larger launders to convey the same over old workings in the adit, which are over 100 fms. long. Other points are without any change of moment, the tribute pitches continuing to yield about their usual quantities of ore. All surface operations are being carried on regalarly, and we have a good supply of water. We shall sample 25 tons of silver-lead ore to-morrow week, the 14th inst.

GORSEDD AND MERLLYN CONSOLS.—W. Edwards, Sept. 9: In the driving east upon the Merllyn vein (going in the direction of original land) the lois is looking better tu-day than it has done, and there is now indication of it opening out to a good size. At this point we are entering entirely unexplored ground for yards above us.—Gorsedd: In the driving east there is very little change, 'un more water is issuing from the forebreast, an indication that we are nearing less compact ground, and consequently are in great hopes of cutting into something good som. The adit driving is easier for progress. We are looking forward to hand you some good news.

GLASGOW CARADON CONSOLS.—W. Taylor, W. J. Taylor, Sept. 1. These.

water is issuing from the forebreast, an indication that we ame animage, at more water is issuing from the forebreast, an indication that we ame animage, at more ground, and consequently are in great hopes of outting into something good son. The adit driving is easier for progress. We are looking forward to hand you some good news.

GLASGOW CARADON CONSOLS.—W. Taylor, W. J. Taylor, Sept, I. There is not much further to notice in the 78 east, which we are pushing on by six men as fast as possible. In the 78 west the lode is worth 82, per fathom. The middle level west is worth 62, per fathom, and likely further to improve. This level east, on the south part, is worth 182, per fathom, and in the whaze 185, per fathom. The ided in the rise is worth 182, per fathom, and in the whaze 185, per fathom. This ievel west is also worth 182, per fathom, and in the whaze 185, per fathom. This ievel west is also worth 184, per fathom, and in the whaze 185, per fathom. This ievel west is also worth 185, per fathom, and in easy ground. No other change to notice. The reported. We are pleased to say that we have hold the new shaft to be surely as the proported. We are pleased to say that we have hold the new shaft to be surely as the result of the same of the surely as the result of the same power of the same power of the same power of the water; we have now about 14 ft. to sink through, and this done we shall make the sinfig good below as fast as possible. The quantity of ore for our next sampling is computed 280 tons, which will be sold on Sept. 23.

GLYN.—James Roach, Sept. 9: The lode in the winze is still exceedingly premising, and yields stones of lead: we be elieve our anticipations will be fully realised when the whole width of the lode is developed at a point some 3 or 4 fathom select when the wind the surely realised when the whole width of the lode is developed at a point some 3 or 4 fathom select when the present bottom of the mine, when we intend to drive the first level on its course. We are promised the whole of th

a week ago, but I hope we shall soon meet with a change for the better. I meset two more pitches to day on tribute, to four men, in the 30 fathom level, at ill per ton for best blende. We have sampled our blende to-day, which I have computed 100 tons.

GREAT RETALLACK.—John Harris, Sept. 8: The ground in the shaft continues spare for sinking, it being in a floor of black stiff killas, and very joist. The stope above the 40 is not looking so well as when I last advised you, and I have put the men to strip down the south side of the 40, upon a lode that is worth about 1 ton of blende per fathom.

GREEN HURTH.—W. Vipond, Sept. 3: There is no material change to nelfe in the milne. The millwrights are all work erecting the second wheel. We have now 140 bings of ore dressed at surface. The weather has been very unfavourable for outfoor work for several days.

GROGWINION.—John Kitto, 528. There have been but few changes in the mine since the date of my last report. The intermediate level, driving east on No. 4 lode, has improved very much, and is yielding very good ore; and the 30, order to facilitate progress in effecting a communication between this and the winze or shaft above referred to with as little delay as possible. I have nothing new to report from the 12 or 24, and the stopes throughout the mine are, on the whole, looking quite as well as usual. In the new shaft, on the eastern ground, the lode is looking tonger as we got deeper, and is yielding spots of lead, and looking more kindly, but I have nothing else new to report from this or any other were never better. We sold on the 3rd inst. to the Barry Port Smelting Company 70 tons of lead ore, at 144. 138. 46. per ton.

HINGSTON DOWN CONSOLS.—J. Richards, Sept. 9: Bailey's shaft is in regular course of sinking below the 150, and part of the lode is being carried (3 lest wide), which is composed of quartz, capel, mundio, peach, and a little copper and tin ores. In the 150 west, Bailey's shaft, the lode on the stope in the bottom of the 150 west, sailey shaft

during the past week worthy of remark. Friday next being our pay and setums day a full report shall follow.

KINGSTON CONSOLS.—G. P. Richards, Sept. 9: The erection of the pumping-engine has been completed, and the same was started to work on Saturdar last, giving every satisfaction. The mine can now be very speedily drained, and

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out this mine

SETT. 11, 1876.

THE MINING JOURNAL.

THE MINING JO

should be further down.—Surface: The washing is going on as usual, and I hope by this day week to have 8 or 10 tons of lead at furface, the greater part dressed.

WEST CHIVERTON.—R. Southey, Sept. 8: Next Saturday is inseed on the weekly sampling of lead and blende will also take place early in the ensuing week. The total amount to be offered for sale will be equal to, if it does not exceed, the previous four weeks' returns. The improvement in the 140, at Hawke's, when we out through the lode, will be dully reported on. So far as seen it is looking very well.

WHEAL GILBERT CONSOLS.—James Pope, Sept. 8: In the addit worth the lode, will be dully reported on. So far as seen it is looking very well.

WEST GOODLEBIN.—J. Pope, Sept. 8: The caunter lode, in the 60 south, is 2 ft. wide, worth 8l. per fathom for tin.—Wilson's Lode; The lode in the 60 cast is 3 ft. din, wide, worth 30l. per fathom for tin.—Wilson's Lode; The lode in the 60 cast is 3 ft. din, wide, worth 10l. per fathom for copper. The lode in the 50 east is 1 ft. 6 in. wide, worth 10l. per fathom for tin.—Wilson's Lode; The lode in the 60 cast is 1 ft. 6 in. wide, worth 10l. per fathom for thin and copper. The lode in the 40 cast is 1 ft. 6 in. wide, worth 10l. per fathom for tin and copper. A full report will be forwarded for the committee will be so the forwarded for the committee will be sold the same fathous the forwarded for the committee will be sold the forwarded for the committee will be sold to the same fathous for the forwarded for the committee will be sold to the same fathous forwarded for the committee will be sold to the same fathous forwarded for th

width of the end, and yleiding 3 tons of ore per fathom. The lode in the 55 end west is large and poor. The lode in the 40 end west is only just dividing the ground. The new engine is here, and is on the bed watting for the engineers to ground. The new engine is here, and is on the bed watting for the engineers to 1014. 13s. 3d.

WHEAL CREBOR.—J. Andrews, Sept. 5. There is no change in the 120 ext. The lode in the winze sinking below the 120 continues of the same value as last week; (30, per fathom). We have not yet cut through the lode in the 105 east, but as far as seen it is 6 ft. wide, composed of quartz, capel, and mundic, and yielding good stones of yellow copper ore. The 12 and 48 ends are without change. The lode in the stope in back of 48 is 3 ft. wide, worth 15. per fathom.

WHEAL GRENVILLE.—E. Hosking, W. Bennetts, Sept. 4. The lode in the 160, east of cross-cut, is worth 25. per fathom. The stope above the 160, east of cross-cut, is worth 25. per fathom. The stope above the 160, east of cross-cut, is worth 18. per fathom. The stope above the 160, east of cross-cut, is worth 19. per fathom. The lode in the 130, east of cross-cut, is worth 9. per fathom. The process of the constant is 100, east of cross-cut, is worth 9. per fathom. The lode in the 130, east of cross-cut, is worth 19. per fathom. The lode in the 130, east of cross-cut, is worth 18. per fathom. The lode in the 130, east of cross-cut, is worth 162, per fathom.—Old Tin Lode: The lode in the north slaft, sinking below the 130, is producing avaning work for tin. The lode in the north slaft, sinking below the 130, is producing avaning work for tin. The lode in the north slaft, is 100 in the 100 in the 100 in the 100 in the 100 cast is 18 in wide, yielding stamping work.

WHEAL KITTY (8t. Agnes)—S. Davey, Sept. 4: New Shaft—Pryor's Lode: The ground in the 164 cross cut is composed of capel, and letting out waterwhich makes it slow for progress. The lode in the 132, driving west of shaft, is 235 ft. wide, worth for tin 12. per fathom. The lode

COAL-CUTTING MACHINERY.-Mr. J. ALEXANDER, of Gartsherrie COAL-CUTTING MACHINERY.—Mr. J. ALEXANDER, of Gartsherrie Ironworks, Scotland, has patented some improvements in compressing engines such as are used for compressing air for working coal-cutting machines; and in the cutting machines. This invention has for its object the further improvement of his apparatus connected with coal-cutting machinery. In the compressing apparatus there is a main compressing cylinder formed with passages at its ends opening directly into two small cylinders. The small cylinders are fitted with pistons made to reciprocate by an eccentric orank or cam, and which act as a valve to the large cylinder, the air entering by the open ends of the small cylinders and passing off in a compressed state through valves in connection with their closed ends. The cutters for the coal-cutting machines consist of flat steet pieces with bevilled cutting edges and with a slight convexity along the edges. Each cutter is held against a jaw formed on the link of the endless chain which carries the cutters in machines of the kind referred to by a kind of claw bolt passing through a hole in the cutter and a hole in the jaw.

Steam.—Mr. Boulton, of Tew Park, Oxford, has patented some

STEAM .- Mr. BOULTON, of Tew Park, Oxford, has patented some STEAM.—Mr. BOULTON, of Tow Park, Oxford, has patented some improvements in apparatus for generating steam or vapour. This invention relates to the generation of steam or vapour by bringing the liquid to be evaporated in contact with a surface heated by products of combustion. The liquid is contained in a rotary generator or vessel made to revolve within a cylinder, and this vessel has one hollow arm or more, such arms projecting from it. The face of each such arm travels along the internal surface of the cylinder which is heated by the passage of products of combustion through the cylinder. The face of the arm is packed, the packing being kept moist with liquid from the generator; and the steam or vapour generated by contact of the liquid with the hot surface of the cylinder collects in a space in the arm and ascends through the liquid in the generator; or by a pipe to a steam or vapour space above the liquid. The rotary generator may have its surface increased by making it like a tubular boiler, and the cylinder may be surrounded by a water jacket. The passages for the products of combustion into and from the cylinder may be helical, so that the rotation of the generator may cause or increase the movement of these products through the cylinder. The rotating arms may be fitted with scrapers to remove matter deposited on the surface of the cylinder.

IMPROVED APPARATUS FOR CUTTING OFF STEAM.—In a metal

IMPROVED APPARATUS FOR CUTTING OFF STEAM,-In a metal IMPROVED APPARATUS FOR CUTTING OFF STRAM.—In a metal framework fixed to any convenient part of the engine Mr. J. W. Shaw, of Longwood, fixes a shaft to which motion is imparted from the crank shaft in the oratinary manner. On the first-named shaft he fixes an eliptical wheel, which gears into another eliptical wheel secured on an intermediate shaft, on which is secured a spur pinion gearing into a wheel secured to a shaft on which is a tappet; the eliptical wheels are so arranged to give the tappet a quick motion at the timesteam should be admitted into the cylinder the said tappet presses against a lever and opens the steam ports wide, and which remain open until the tappet has pa-sed the lever, when the valve closes, and remains so until a second tappet which revolves in the opposite direction opens the ports communicating with the condenser and gives access for steam to escape.

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The Mining Market: Brices of Metals, Ores, &c.

MET	AL MARKET-LONDON, SEPT. 10, 1878.
COPPER. & s. d. & s.	I. IRON. per ton. & s. d. & s. d
COLLEGE: SO SI CL	0 Bars Welsh, in London 7 15 0-8 0
Dest selectedb. con or	0 Do., to arrive 7 12 6
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meatining a success bo	0 . Staffd. in London 8 15 0- 9 10
DOILS	Bars , ditto 9 0 0-9 5
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Old 80 0 0	0 Bars , at works 8 5 0-9 5
Australian, Wallatoo FE	0 Hoops, ditto 9 5 0-11 0
divo other branch of	O Sheets, single, & plates12 0 0-12 10
Chin bars, g.o.o oa o	Pig No 1 in Wales 5 0 0- 6 10 6
Wireper lb. 0 0 1134	Refined metal, ditto 7 0 0-8 0
Pubes 0 1 0½	Bars, common, ditto 7 0 0-7 5
BRASS. per lb.	
Sheets 9d10d.	in Tyne or Tees
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SPELTER. per ton.	100,110,011,100
Foreign on the spot 24 10 0-24 15	Railway chairs 4 0 0- 4 10
to arrive 24 10 0	spikes12 0 0-13 0
arwa	Swedish boiler plates25 0 0-35 0
In sheets 30 10 0-31 10	o sheets & strips28 0 0-29 0
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Tin. 8 89 0 0- 90 0	o steel. per ton.
English Diocks & or or or	8wed., in kegs (rolled)
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Straite	DEAD. per ton.
Australian	English Pig, com23 0 0-23 5
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a at the works la to la 6d, per to	n less. † Add 6s. for each X.
Towns, plates 2s, per box bel	ow tin-plates of similar brand.
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Remarks.—The past week has been uneventful; but the markets have maintained their position, and the tendency very generally has been towards increased firmness. So far as it is possible to form an opinion with regard to the future, it seems improbable that there will be any very important fluctuation in price or alteration in the position of the markets until the turn of the year. The autumn trade, if limited in extent, is likely to be fairly steady; and though the support afforded by those markets whose ports are closed during the winter will in due course be withdrawn, yet the home trade and that with the Continent appears to be on a sufficiently firm basis to ensure pretty generally a fair business. Prices during the winter quarter may be subject to some slight further depreciation. The harvest operations are drawing to a close, and the almost universal continuance of favourable weather for the ingathering of the crops will materially tend to mitigate the disastrous consethe crops will materially tend to mitigate the disastrous consequences which must have ensued had it been otherwise.

The political atmosphere is becoming clearer, and it is not probable that any contingency will occur to hinder the progress of

business.

COPPER.—This market has been stiffening throughout the week, and a fair amount of business has been concluded, at full rates; but there has hitherto been no important change in quotations. The price of copper ore, relatively with that of unwrought copper, leaves apparently no profit upon the latter, and the slightly enhanced leaves apparently no profit upon the latter, and the slightly enhanced quotations for manufactured are not such as to place this description of copper in a better position. Whether the value of ores will come down, or that of wrought copper advance, it is not easy to say, but the existing anomaly cannot last for ever. At the present moment Chili produce is held firmly. The demand for the home trade is satisfactory, but for India it is not so good, and what orders might be given out are at limits which it is impossible for sellers to accept. Yellow metal is quiet, at 7½ d. Chili bars, 83%. cash, g.o.b; special brands, 82%. Sa. and 82%. 10s. English tough, 83%. and 80%; best select, 90% and 91%; India 4 by 4 sheets, 94%. 10s. and 96%; and strong copper, 97%.

IRON.—There is nothing fresh in the position of the iron trade in Scatt. Wales, and there is no reason to expect that any new feature.

South Wales, and there is no reason to expect that any new feature of interest is likely now to arise until the requirements for the ensuing year come to be considered. That measure of support which the market has received from the execution of orders for Russia. small though it has been in comparison with the experience of past years, must soon cease for the current season, in consequence of the closing of the Northern ports for the winter, and it is not likely that now, so late in the season, any fresh orders will be booked for these ports. Enquiries from other quarters are much as they have been, and present but little to encourage with regard to the immediate future. The rail market is specially quiet; a small a nount of business has been done at 6% 18s., but the ordinary quotation for usual sections is

ness nas been done at c. 108, out the ordinary quotation for usual sections is 71, per ton.

In the North of England the demand for pig-iron is fully maintained, the run being upon foundry qualities, which are very firmly held. This steady enquiry, which has continued for a considerable period, seems likely to last for some time. The demand for finished iron is very sluggish. There is very little doing in rails and in merchant bars, but the enquiry for plate iron is moderately good. Figs are quoted: No. 1, 57s.; No. 3, 50s.; No. 4 forge, 47s. The work in North and South Staffordshire has been held in abeyance for some little time, while the Board of Conciliation has been employed in settling various questions. The session has been defeated in the praisworthy object it had in view in consequence of the unconstitutional conduct of the operatives, who struck work during the progress of the negociations. Their representatives (seeling that they were seriously compromised by the conduct of the men, summoned a large meeting of their constituents, which has been held at Great Bridge, at which some wholesome advice was administered, and some home truths told.

has been held at Great Bridge, at which some wholesome advice was administered, and some home truths told.

It appears that the men highly approve of conciliation boards, if the result of the conciliation meeting be to raise the scale of wages; but, should the verdict of the board tend in the other direction, it appears that they are rather disposed to repudiate the acts and deeds of their representatives. They were told at the meeting that a school board was even a greater necessity than a conciliation board, and the disastrous results which must accrue from such a breach of the good understanding which has previously existed were pointed out. During the long protracted struggle between capital and labour through which we have been passing these boards have from time to time rendered such important service that its much to be regretted that an occurrence should have taken place which must shake confidence for the future in this mode of meeting for the settlement of differences.

The market for Scotch pig-iron has been fairly steady. There have been fluctuations, but not to a greater extent than about is, per ton, and at the close of the week pigs are about 5d. per ton dearer than last week, the last quotation being 64s. 8d. to 64s. 9d. There has been a special demand for certain brands that are in equest, and it seems probable that until the close of the shipping season prices will be firmly adhered to.

SHIPMENTS.

Tons 10,616

Week ending Sept. 5, 1874

Neek ending Sept. 5, 1874

Ingress.

1.133

Increase Total incr Total increase for 1876 this market still continues, and good soft English pig is not obtainable under 23l. to 23l. 5s., and soft Spanish, without silver, 22l. 15s.

SPELTER.—The market is firm. Business in Silesian is reported SPELTER.—The market is firm. Dusiness in Suesiants reported—spot, 24. 10s.; special, at outports, 24. 15s.; and W.H., 25. 5s. Zinc.—A parcel of foreign has been sold at 28. 17s. 6d., ex ship; also 50 tons London rolled, 28. 5s. and 27l. 17s. 6d. QUICKSILYER.—This metal has been without variation during the week. The last price at which business has been reported is 11l. 11s.

week. The last price at which business has been reported is 11. 11s.

TIN.—Straits tin has been firm throughout the week, and a fair average business has been transacted. The price is improving, and the announcement that the Dutch Trading Company's sale, to be held on the 29th inst., is to consist of 22,900 slabs of Banca appears to have afforded some further stability to prices.

TIN-PLATES.—The market is very quiet, and the fact that the price of tin is advancing will only render makers less able to tempt

buyers by submitting to further concession in quotations

THE IRON TRADE (Griffiths's Weekly Report).—Friday Evening. The Glasgow market for G.M.B iron has been steady during the week. The closing price this day week was 63s, 6d. To day G.M.B. was quoted 64s, 6d. at the close, an advance of is, per ton. The following is our advice of to-day's market:—At forenoon market no business was reported. In the afternoon several lots changed hands at 64s, 6d. a month open, at which price the market closed with buyers, sellers 64s, 6d. cash. We quote makers' No. 1 iron as follows:—Gartsherrie, 72s; Coltness, 75s.; Calder, 75s.; Langloan, 74s.; Summerlee, 67s.; Monkland, 64s, 6d., f.o.b. Glasgow; Glengarnock, 69s.; Eglinton, 64s, 6d.; f.o.b. Anderson Shotts, 74s; f.o.b. Leith Kenniel, 64s, business. Our market for all kin-4s of iron this week has been more active, and the general business has increased. Some good orders have been given out for market 6staffordshire bars.

Most of the houses who make this class of iron must have their hands tolerably full. Some good contracts have been sen tint North Staffordshire for hoops, and the general orders for second-class Staffordshire are more abundant, and prices invariably the turn of the market in favour of the makers. The alteration in the prices of the eminent Yorkshire makers has liberated several Government contracts both for home and abroad, and added considerably to the contents of the order-

books of the noted Yorkshire houses. The market for the raw material is firmer in all districts, although the improvement is less noticeable on the West Coast. We have no change to notice in tin plates—the market continues sluggish,

Messrs. James and Shakspeare - COPPER: No transactions were Mesers. James and Shakspeare—COPPER: No transactions were reported in ore or regulus. Chili bars were very quiet in the early part of the week, owing to the heavy charters for the last half of August, and sales could only be made at a reduction of about 10s. to 20s. from the nominal prices; during the last few days, however, buyers have again come forward, and their operations have been sufficient to effect a complete recovery from the temporary depression. Yesterday some rumours were ailout of a large purchase having been made in Liverpool, but nothing definite transpired. Australian sorts continue steady, owing to the scarcity of Wallaroo, which brand ean now be obtained in moderate quantities at our list rates. English is unchanged, but there is a better enquiry for manufactured from Russia, and values have a somewhat upward tendency.—Trx: English keeps firm, out the demand is small. In foreign descriptions the transactions were again large, both in Straits and Australian, and the market closed last night with every prospect of a further advance in values. The Dutch Trading Company have declared 22,900 slabs of Banca for their sale in Holland on Sept. 29.

Company have declared 22,900 slabs of Banca for their sale in Holland on Sept. 29.

Messrs. Henry Rogers, Sons, and Co.—Copper: The demand has almost ceased since the last telegraphic advices reached us from the West Coast. Prices have given way about 10s. for raw copper, but English maintains its value, second-hand supplies being pretty well cleared off the market. Australian copper is high, especially Wallardoo, of which, excepting a few small second hand samples, there seems now to be no available supply. For manufactured copper the demand has not continued.—Tits: Prices have advanced again, spot parcels being scarce and firmly held.—Spelfers: There being no available supply of English, the demand is being met by Silesian and Rhenish, very high prices being paid for both sorts, especially for delivery this and next month, consumers apparently being without stock.—Lead remains dear: the demand is, however, only moderate.

Messrs. Grenfall and Richards—Coppers. Our workstip in the consumers apparently being without stock.—

Messrs, Grenfell and Rickards—COPPER: Our market is very eady at \$2!. for Chili bars, f.o.b. Importers do not care to part with either fur ce stuff or bars below current quotations. For regulus 17s. was, refused yester by. The absence of Wallarco from the market (the whole available quantity in day. The absence of Wallaroo from the market (the whole available quantity is stock here having been disposed of) causes more demand to run on Burna an English raw.—Itn: The continued large delivery has convinced many of the trade who were inclined to attribute some portion of the late enormous delivery to "mipulation of stock," that we must realise and act on the fact that the low price ruling for the last 18 months have increased and developed actual consumption of the beyond what the most sanguine holder could have expected two or three year ago.—LEAD continues in great demand, and still higher prices are asked.

ago.—LEAD continues in great demand, and still higher prices are asked.

Messrs. Sanford and Bird—COPPER: The Chili charters for August were 4200 tons, against 3700 tons for July, and 5700 for June. The market is steady at 221. for g.o.b.'s. English sheets 95. to 971., and ingots 851. to 892. per ton. Australian is nominal, Tin has improved to the extent of about 22. per ton all round, and closes very steady in price. Consumption and deliveries from stock continue large, and though the production of tin-plates has undoubtedly fallen off, the demand from other quarters is exceptionally good.—Thy-Plattes: There has been very little doing in tin-plates during the past month, and prices rule in buyers' favour. We quote good charcoals 27s. to 28s.; good cokes, 23s. 6d. to 24s.; second-class brands, 22s. to 23s.—Lean still continues firm at 23t. to 23t. 5s. for good soft English pigs.—Spelter is somewhat firmer.—Sheet Zinc is steady.

Mr. Murrant,—Tin: In Straits a fair business has been transacted, but no material alteration in values has taken place. An improvement in prices

Mr. Murrant.—Tin: In Straits a fair business has been transacted but no material alteration in values has taken place. An improvement in price is much hoped for, as most of that now held shows a considerable loss. The week' reported sales have been 300 tons Straits, and 150 tons Australian, at 30s. to 82s. 6d for cash and arrival.—Copper. Chili: On Thursday last the charters from the West Coast for the second fortnight in August were advised as 3000 tons, of which about 1200 bars and 1000 regulus for the United Kingdom, and 700 bars to France Price of bars on the Coast \$18.55, equal to about \$11.7s. 6d. per ton in warehous on this side without merchants' commissions. The effect of these somewhat heavy charters was the sale of g.o.b's. to a considerable extent by holders as low as \$11.10s for cash. The market has since been nominally rather better. The reported business has been 700 tons g.o.b's., and named brands at \$11.10s. to \$31. for cash and prompt.

Messrs. French and Smith—Copper quiet, and prices of Foreign resers. French and Smith—Coffeek quite, and prices of Foreig evider ather in favour of buyers. —Th: Early in the week prices gave way the market has since become active, and the drop has been fully recovere. Dutch Trading Company announce their next sale for the 29th inst., whe 00 slabs Banca will be offered.

Messrs. Vivian, Younger, and Bond—Copper: The fluctuations in rices have been rather in buyers' favour, but at the close there appears to be an oreasing demand, and quotations are 10s. to 20s. over the lowest values for the eek, being firm at annexed rates. —Trx, after falling back to 70s. for Australian d80s. 6d. for Straits, has fully recovered itself. The trade done has been conderable, and the prices close at the best for the week, being fals. 6d. for Australian, and 80s. for Straits. English, firm in price, but demand light.

A fair average amount of business has been transacted in the A lair average amount of observes has been transacted in the Mining Sharke Marker this week, but there is no material altera-tion in prices. Good speculative stocks are being quietly picked up for a rise, and the demand at present is more than equal to the piply at present quotations.

Those dealt in have been Carn Brea, Tincroft, West Frances, West

Those dealt in have been Carn Brea, Tincroft, West Frances, West Chiverton, Great Laxey, Wheal Crebor, Parys Mountain, Javali, Tankerville, West Tankerville, South Condurrow, Wheal Grenville, Hingston Down, Penstruthal, Cathedral, Roman Gravels, East Lovell, Ladywell, Marke Valley, Relistian Consols, Kitty, and others.

South Caradon, 120 to 140; at the meeting, held on Tuesday, the accounts for the three months ending June showed a profit of 1515t, and a balance in hand of 3568t, out of which a dividend of 2t, per share (1024t) was declared; 500t, was paid on account of new engine, &c., and 2044t. carried forward. The copper ore sold in the quarter was 1343 tons, which realised 10,438t. The agents report that the mine is still looking well, and they see no reason to doubt its continuing so. The sett of West Caradon has been added to the mine. Providence Mines, 3 to 3\frac{1}{4}; at the meeting there was a loss shown on the quarter of 516t, and a balance against the mine of 475t. The tin sold, 47 tons, realised 2264t. No call was made, and the agents hope to show a better book next quarter. New Pembroke, \(\frac{3}{4}\) to 1; at the meeting the accounts showed a debit balance of 851t. but no call was made. In the 120 fm, level there is a good lode,

 $\frac{3}{4}$ to 1; at the meeting the accounts showed a debit balance of 851\$L, but no call was made. In the 120 fm, level there is a good lode, worth 25\$L to 30\$L per fathom. Bedford United, $\frac{3}{4}$ to $\frac{7}{8}$; Bog, 7s. to 9s.; Carn Brea, 46 to 48; Cook's Kitchen, 8 to 9; Devon Great Con sols, $\frac{28}{8}$ to $\frac{25}{8}$; Dolcoath, 45 to 47.

Wheal Grenville, 2 to 3; this mine has been specially inspected by Capt. Josiah Thomas, of Dolcoath, who refers more particularly to the South Condurrow lode as the great point in the future of the mine. This lode, he says, has now been intersected in Grenville in the 130, 140, 150, and 160 fm. levels, and by means of winzes and rises all this ground is laid open for working. At various points he values the lode at 10\$L, 15\$L, 20\$L, and up to 30\$L per fathom. It is difficult, he says, to estimate the value of the reserves, but looking at the size and general character of the lode, as far as seen, there is difficult, he says, to estimate the value of the reserves, but looking at the size and general character of the lode, as far as seen, there is no reasonable doubt that on being more fully explored it will be found to produce large quantities of tin for many years to come. He sees no reason why the returns of tin should not shortly increase, especially if the lodes in the 160 and 130 continue to open out as they have lately done, but to work the mine effectively more pumping power and more stamping power will be required. The South Condurrow lode, he says, is always most productive when another lode or branch falls in with or intersects it, and the new shaft by being sunk a little deeper will meet with one of these intersections. being sunk a little deeper will meet with one of these intersections. Roman Gravels, 11\frac{3}{2} to 12\frac{1}{2}; the various points in operation at this mine are valued by the agent at 1138\frac{1}{2}. per fathom, which ought to give very large returns per month. Tankerville, 10\frac{3}{2} to 11\frac{1}{2}; the lode at Watson's shaft the agent estimates at 6 tons of lead ore per fathom. In the winze below the 15\frac{1}{2} west the lode is as black as coal and worth for lead 200\frac{1}{2} and the first hard the first har

lode at Watson's shaft the agent estimates at 6 tons of lead ore per fathom. In the winze below the 152 west the lode is as black as coal, and worth for lead 200%, per fathom. The 152 west is worth 30%, per fathom. There are 150 tons of lead sampled for sale on Thursday. West Tankerville, 1½ to 1½.

Wheal Crebor, 2¾ to 3½; the lode in the winze continues worth 30%, per fathom. The 108 end is now 6 ft. wide, with every indication for a course of ore. East Caradon, 25s. to 30s.; East Lovell, 7½ to 8; Great Laxey, 14½ to 15½; Hingston Down, 20s. to 25s.; Ladywell, 2¾ to 3; Marke Valley, 2¾ to 3; Old Treburgett, ½ to ¾; Pennerley, 1½ to 1¾; Penstruthal, 10s. to 12s. 6d.; Plynlimmon, 6s. to 8s.; Prince of Wales, 2s. 6d. to 5s.; Cathedral, 25s. to 30s.; Prince Patrick, 20s. to 25s.; Bampfylde, 20s. to 25s. Parys Mountain, 12s. to 14s.; the returns this month are close upon 1000%. The 90 crosscut, towards the great open-cast, has not yet met with the lode, cut, towards the great open-cast, has not yet met with the lode, to 14s.; the returns this month are close upon 1000l. The 90 crosscut, towards the great open-cast, has not yet met with the lode, but may do so any day; a branch has been met with this week. New Rosewarne, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; the points in the copper lode are worth 20l. per fathom. The best parcel of ore sold last week at 7l. 8s. 6d. per ton. South Carn Brea, 30s. to 35s.; South Condurrow, 5 to 5\frac{1}{2}\$; South Tolcarne, \$\frac{3}{4}\$ to \$\frac{1}{2}\$; Tincroft, 23\frac{1}{4}\$ to 24\frac{1}{2}\$; Van, 23 to 25; Van Consols, \$\frac{3}{4}\$ to \$\frac{2}{2}\$; West Fances have been in demand, and have advanced to \$\frac{3}{2}\$, \$\frac{3}{2}\$; West Godolphin, 22s. 6d. to 25s.

West Maria and Fortescue, 6s. to 8s.; West Seton, 32\frac{1}{2}\$ to 37\frac{1}{2}\$; West Tolgus, 52\frac{1}{2}\$ to 55; Wheal Kitty (8t. Agnes), 2\frac{1}{2}\$ to 3; Wheal

West Maria and Foriescue, os. to 5s.; west Seton, 32s to 3/2; West Tolgus, $52\frac{1}{3}$ to 55; Wheal Kitty (St. Agnes), $2\frac{1}{3}$ to 3; Wheal Uny, $2\frac{1}{3}$ to 3; Tyllwyd, 17s. 6d. to 22s. 6d.; Prince Patrick, 7 to $3\frac{1}{3}$. Pateley Bridge, $6\frac{1}{3}$ to $7\frac{1}{3}$; this mine, we understand, is doing well, and the new lode is worth 35l. per fathom. West Chiverton, 16 to 17. Birdseye, $1\frac{1}{3}$ to $1\frac{3}{3}$; Chontales, 11s, to 13s.; Eberhardt and Aurora,

8½ to 8½; Emma, 1½ to 1½; Flagstaff, 1½ to 1½; Frontino and Bolivia, 15s. to 20s.; Javali, 14s. to 16s.; Last Chance, 1 to 1½; Richmond, 9½ to 10½. Sweetland Creek, 3 to 3½; a dividend of 2s. per share

The Market for Mining Shares on the Stock Exchange during the The Market for Mining Shares on the Stock Exchange during the week has been again firm, and a considerable amount of general business continuing to be recorded at full quotations. The Metal Market has made further progress in the healthy reaction of the last few weeks, and the trade of the country, as indicated by the Board of Trade returns, just issued, would seem to strengthen the opinion entertained in well-informed quarters that a still more marked recovery will take place in the value of most metals in which mine-

covery will take place in the value of most metals in which mine-owners have a direct interest.

Among Home descriptions, lead mines have been mostly enquired for. Pateley Bridge shares have been largely dealt in $6\frac{1}{2}$ to $7\frac{1}{2}$; the property has again been inspected by Mr. Blenkiron, who confirms the report of the recent general improvement in the mines. The lode in the 10 fm. level cross-cut has improved to 35l. in the end; this is a most important feature, as showing that the course of own lode in the 10 fm. level cross-cut has improved to 35%. In the end; this is a most important feature, as showing that the course of ore is falling down to the end. In the 20 fm. level cross-cut the lode has been intersected; it is large in size, and promising in appearance; rich stones of lead are already being found. The Gulf vein has also improved to 1 ton per fathom. During the week every point in operation has presented an improved appearance. It is said that some influential parties connected with the lead trade in the North of England have recently taken an interest in the company. In Silver Mines the chief feature has been the large dealings in Richmond shares. Speculative sales caused the price to run down, but a recovery quickly took place, adverse operators eagerly seizing the opportunity to purchase. The market closes with a firm appearance at 9\frac{3}{4}\text{ to 10\frac{1}{4}}. Cablegram received: "Week's run \$40,000, No. 2 furnace relined." Doré bars to the value of \$27,000 ende interest the end of February and of the price of the end of the produced this season amounts.

appearance at 9\forall to 10\forall. Cablegram received: "Week's run \$40,000, No. 2 furnace relined." Doré bars to the value of \$27,000 were forwarded for sale last week. The bullion produced this season amounts to \$790,000, and since the end of February to \$1,011,000. The refinery has this season produced gold and silver bars to the value of \$525,000, irrespective of the lead. The furnaces which were re-lined in the order No. 1, No. 3, and No. 2, are now completed for an unterrupted run of three months ahead. The summer is reported to be the hottest ever known at Eureka, and the sickness greater. The nights, however, are now cooler, and the sickness abated; it may, therefore, be hoped that the returns in future will be closer to expectations than those during the past two months. It seems to be the result of each year's experience that the best runs are between the months of August and February—the extremes of heat and cold operating 'unfavourably on the returns. From the progress made with the rallway there would seem to be little doubt that the line will be open for traffic from Eureka to Palisade Station on the Central Pacific by November. Every exertion is being made to get the new hoisting machinery fixed, it being found that the old engine is inadequate to the task of raising ore from the depth already attained. The ground at the end of the 200 ft. cross-cut is now less hard, and the work, therefore, executed faster. The drift from the 700 ft. level is also in rock much easier to work in than that in its predecessor at the 600 ft., which was executionally hard. The old flat chamber below the Livite tower the support of the core in the doubt the train the sum of the core in t raster. In that that in its predecessor at the 600 ft, which was exceptionally hard. The old flat chamber below the Lizette tunnel the 500 ft. was nearly worked out. Below the 500 ft. good ore is being extracted; the ore in the 600 ft. level will not be available till the new hoisting engine is ready. Explorations are being continued in the ore body itself of the new discovery, and will be followed up sufficiently to obtain the dip of the ore stratum before further attempts are made to intersect it higher up the mine. The recent crisis at San Francisco has made no change in the arrangements at Eureka, and produced no inconvenience. We are informed that the company ran no risk as a consequence of the failures of the Bank of California, and have sustained no loss.

that the company ran no risk as a consequence of the failures of the Bank of California, and have sustained no loss.

Referring to the adjoining property—the Eureka Consolidated—the Eureka Seatime! of August 12 says—

"Yesterday we paid another visit to the Eureka Consolidated, where we found a great change in the appearance of things in the 7th level since our visit last well. The drift from the first cross-cut is through to the winze, furnishing an opeling to the main body of ore, and enabling us to ascertain the extent of the cave at that level, which is but a trifle compared with what we had supposed it to be before access was had to the works in the rear. The extent of the caved ground does not exceed 30 ft. east and west, by about 15 or 20 north and south. The work of running through the caved ground in the main drift is but a matter of a few day, when double the facilities for the extraction of ore will be rendered available. The removal of the debris in the chamber between the 6th and 7th levels has brought to view another large body of ore which heretofore had not been discovery of the miss, nor the prospects for a profitable returns of avourable as at present. This assertion is based upon our own personal observations, and we know whereof we speak."

Eberhardt and Aurora, 8½ to 8½; the run for August is expected to be more satisfactory than any hitherto made. Imma, 1½ to 1½; a motion was heard before Vice-Chancellor Bacon, on Tuesday, for the production of certain documents in the possession of the company, in order that the plaintiff (Mr. Macdougall) might examine and make copies of them. The Vice-Chancellor ordered that the

and make copies of them. The Vice-Chancellor ordered that the papers should be at the disposal of the plaintiff from Sept. 13 to the end of the month, the company to be then at liberty to send the documents to America.

Tecoma, $\frac{5}{8}$ to $\frac{7}{8}$; the result of five assays of the ore taken from the lower adit show an average value for silver of a little over \$80 per ton of ore, and that the 10 tons obtained merely in driving the adit should, therefore, very nearly pay the costs incurred. A speedy development of the vein is considered by the board a matter of the first moment, and the superintendent has instructions to push it on as rapidly as possible. It is desirable that the company should be enabled to take the utmost advantage of its present position and prospects, and the board impressed upon the shareholders the importance of lending their best assistance. It is with some confedence believed that the company's property with patience and a little more pecuniary assistance, will at no distant date make some fair compensation for all the anxiety it has hitherto caused the shareholders. The latest advices state that the veins and pockets of one which are now being worked will be found to connect and of ore which are now being worked will be found to connect and lead to the great vein or lode for which the lower adit is being driven.

There has been a fair business transacted in the shares of various Hydraulic or Gold Washing Companies on the Stock Echange. Sweetland Creek 3\frac{1}{6}\tau 0.3\frac{2}{6}\tau 3\frac{2}{6}\tau 1.2\tau the ditch was making satisfactory progress, and will sould be pleted at present rate. Washing was practically over. The shares are steady at quotations, though but little business is recorded. Birdseye Creek, 1½ to 2; the late clean-up was much better than the last one or two. The agent hoped to continue washing to the end of August, and anticipated a satisfactory clean-up for the close of the season. Cedar Creek, ½ to ½; these shares have found buyers at the washing was nearly over for the season. present quotations. The washing was nearly over for the season, but the tunnelling would be continued, as but little water was required for the drill. Oregon, 4 to 4½; an exceedingly satisfactory telegram to hand:—Many hands are employed; 57 ft. of the tunnelling washing the distance of the drill.

quired for the drill. Oregon, 4 to 4; an exceedingly satisfactoric telegram to hand:—Many hands are employed; 57 ft. of the tunnal and a quarter of a mile of the ditch are completed. They expect to finish the whole by the end of November. The yield of gold by par process is fully equal to all that has been reported.

There has been only a limited business in Foreign Gold Quarts shares; and last week's quotations are almost without variation. St. John del Rey, 400 to 410. The produce for 11 days, 2nd division of Aug., is 18,750 oits., value 7265L; yield 10·2 oits per ton. All is reported going on well at the mine. Don Pedro, ½ to ½ Port Phillip, ½ to ½. Chontales, 9-16ths to 11-16ths. Jarali, ½ to ½ Almada and Tirito, ½ to ½. Sierra Buttes, 1½ to ½. Plumas Eureka, 1½ to 1½. London and California, ½ to ½. Independence, 2 to 2½. Frontino and Bolivia, ½ to 1½.

Cape Copper, 3½ to 35; the returns for the month were 860 tons of 29 per cent. ore from Ookiep, and 45 tons of 27 per cent. from Spectakel; 620 tons have been put forward for sale on Sept. 14. Rio Tinto, 7½ to 8. Seven Per Cent. Mortgage Bonds, 16½ to 17; notice has been given that the scrip about to be delivered by the Council of Foreign Bondholders bears two interest coupons, and that due July 1, 1875, must be left at the office of the Rio Tinto Com-

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Bolivia,

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pany. New Quebrada, 3½ to 4; Panulcillo, ‡ to ‡; Russia Copper, yat to 2½.
Van, 24 to 25; the 90 west has improved, the same level east is also opening out good ore ground. Other points without alteration, ererything proceeding satisfactorily. Van Consols, 1¾ to 2; the new drawing shaft is fast approaching completion. The hanging-wall of the lode has already been reached, and the course of lead in this part of the mine will shortly be available for working in the most economical manner. Bog, ¾ to ½; preparations are well under weigh for sinking the shaft below the 175, and no time will be lost in commencing. The 175 is looking well; other parts of the mine such the same.

weigh for simen and the life is looking well; other parts of the mine members, 1\(^1\frac{1}{2}\) to 1\(^1\frac{1}{2}\); Potter's Pit: No. 1 winze still maintain its ralue—4 tons to the fathom. No. 2 is worth 2\(^1\frac{1}{2}\) tons, and promising for an improvement. The lode in the winze sinking below the 70, in the old part of the mine, on Warm Water lode, is worth 3\(^1\) tons per fathom. Assheton, 1\(^1\) to 1\(^1\). Grogwinion, 2\(^1\) to 3\(^1\); Wye Valley, 3\(^1\) to 4: Llanidloes, 3 to 3\(^1\); South Cwmystwith, 1\(^1\) to 1\(^1\). Penstruthal, in demand, 10s. to 12s. 6d.; the mine continues to open out most satisfactorily. Cathedral, 25s. to 30s.; the various points in operation are yielding the usual quantities of copper ore, and the lode in the shaft is getting clear of the hard bar of elvan, and improving fast for copper ore.

in Operation in the shaft is getting clear of the hard bar of elvan, and improving fast for copper ore.

Subjoined are the closing quotations:—
Subjoined are the closing t

Sig.; Teooma, % to %.

**GEFFIELD.—Mr. J. R. Heard, stock and share broker, in his weekly circular signs—Not much business has been done during the past week, and on the whole dil feeling has prevailed. Sheepbridge 2 per cent better. The following are carrent rates:—Biboa fron Ore Oompany, 43 to 45; Bolckow, Vaughan, and Co., 1 to 12½ prem.; Brown, Bayley, and Dixon, 26 to 25½ dis., 27½ to 26; Charles Cammell and Co., 7 to 6 dis., 8 to 7½; Charleton Iron Company, 11 to 13; Chillington Iron Company, 4½ to 5; Ebbw Vale Steel and Iron Company, 18 to 12½ dis.; G. and J. Brown and Co., 80 to 78 dis.; Hopkins, Gilks, and Co., 6 to 5½ dis.; Gh. Brown and Co., 9 to 10 prem.; Parkgate Iron Company, 12 to 13 prem.; Sheepbridge Coal and Iron Company, 19½ to 9½ prem.; 18½, 18½, 19, 19½, 10½, 10½; Skaveley Coal and Iron Company, 58 to 9 prem.; William Cooke and Co., 14 to 13 dis.; Sheffield Waterworks Company, 100 septem.; Sheffield Gas Company, 207 to 209.

80 pem.; William Cooke and Co., 14 to 13 dis.; Sheffield Waterworks Computy, 97 to 98; Sheffield Gas Company, 207 to 208; Sheffield Gas Company, 207 to 208; Bheffield Gas Company, 208; Bheffield Gas, 208; Bheffield

beter, at 135 to 140 ex div.; South Devon, 54½ to 55½ ex div.; and Taff Vale, 187 to 180 ex div.; He BRYN ALYN LEAD MINING COMPANY, with a capital of 20,000l, in shares of 10l. each, has been formed to purchase from Mr. M. Heslop, who retains the office of managing director, the 21-years lease of the property of the same name between the Nant and the Belgrave Mines, at Llanarmon, Denbighshire. Mr. Heslop is confident that by the employment of a larger capital the profits would be very great, and, therefore, takes the greater part of his parchase-money in shares. The adjoining mines are said to have made their owners immensely rich when lead ore was sold at only 9l. per ton. The sett is travened by three well known east and west master lodes, besides tribute and cross courses, all of which have proved productive even in small surface workings. The grant is chiefly from the Duke of Westminster, at 20s. per ton royalty, but a small pred is held at one-tenth. The mine is drained by a natural swallow to more than 100 yards, which will save the expense of a pumping-engine. An adit level has been driven at a large expenditure from the valley below, which is about 500 yards long, and takes about 600 ft. of cover in the middle of the sett. This level is of ample height and size, and will be of great and permanent value for the positable working of the mine. This adit was driven with a view of unwatering the miner, as well as to develope each of the productive lodes in its course, and bring the miners is to side of the River Alyn (for dressing and preparing for market), where there is a good supply of water at all seasons of the year for cleasing theorem and working the necessary machinery for the same. Capt. John blord reports that, "taking all features into consideration, and looking at the mine's position with its adjoining rich neighbours, I conclude that you have a fine field for operation. Fine deposits of ore will be much that you have a fine field for operation in another column.

Sweetland Capt. And the declared

SWEETLAND CREEK (Gold).—The directors have declared a divided of 2s. per share, payable on and after Sept. 25.

ATLANTIC AND GREAT WESTERN RAILWAY COMPANY.—Mr. L.
J. Woodman has issued a further statement of the deposits and assents received up to Weinesday from more than 2000 proprietors, representing 40 per cent. of the radious securities of the company, in support of the revised official scheme of strangement.

COMPANIES' REGISTRATION.—The sum of 22,548l.16s,6d. was realized by stamps in the year ending March 31 last.

COMPANIES' REGISTRATION.—The Sum of 22,0484, 108, 0d, was realized by stamps in the year ending March 31 last.

CHEMICALS, MINERALS, AND METALS—(Messrs, J. Berger Spence and 0.)—Soda: Cream caustic, 60 per cent., 12. 7s. 6d.; white, 60 per cent., 13. 2s. 6d. to 13. 5s.; soda ash, 1%d. to 1 15-16d.; soda crystals, 5l. to 5l. 5s.; blearbonate, 13l. 8s. to 13l. 10s.; sait cake, 2l. 12s. 6d.; Glauber saits, 2l. 15s.—Bisching Powder: At 7l. 2s. 6d.—Alum: 7l. 10s. for loose lump; ground, 8l. 5s.—Bisching Powder: At 7l. 2s. 6d.—Alum: 7l. 10s. for loose lump; ground, 8l. 5s.—Bisching Powder: At 7l. 2s. 6d.—Alum: 7l. 10s. for loose lump; ground, 8l. 5s.—Aluminous cake, 6l.—Nitrate of Soda: At 11s. 9d. to 12s.—Ammonia: Sulphate, 5rey, 18l. 10s.; white, 19l.; carbonate, 7d.; muriate, 30l. to 32l. 10s.; sail ammoniae, firsts, 4s.; seconds, 44s.—Potash: Muriates, 80 per cent., at 6l. 10s. to 6l. 1s. 6d., f. 0.b.; Prussiate, red, 2s. 3d.; yellow, 1s. 0½d.; chlorate, 0d.; blearome, 4½d.—Iron Sails: Green and rusty copperas, 60s. loose; in casks or larges, 6s.—Copper Salts: Sulphate of copper, 26l.—Litharge: Best flake, 28l. 10s. second quality, 24l. 10s.—Sugar of Lead: Brown, 26l.—Acid: Tartario; English, 4l. 8½d.; foreign, 1s. 6½d.; oxalic, 5½d.; sulphuric, 3l. 10s. to 3l. 15s.; carbolis, No. 1, 9½d.; picric acid, 1s. 10d. per lb.—Arsenic: 14l.—Magnesia: Epsem als, 3l. 17s. 6d.; refined, 4l. 10s.—Esparto: Oran, fair average quality, 6l.; Sussafia; 7l. 5s.; best, 8l.; best average quality, 7l. 10s. to 7l. 15s. per ton.—Brimstone: Best timestone: 8½d.—China-clay: 15s. f.o.b. Cornwall; best quality, 2s.—Phosphates: High strength, 80 to 85 per cent., 1s. 4d. to 1s. 5d. per mit; 28 to 26 per cent., 3l. 10s.—Manganese: Ores, 110s. for 70 per cent.—Iron 7cs. Henry and 10s.—Copper: Chilo, 8s. to 10s.; 11cs.; super-phosphates, 80 per cent., soluble, 3s. 6d. per mit; 28 to 26 per cent., 3l. 10s.—6d.; no. 4 (lorge, 4s., net ash, or 1s. extra four months bills: Sootoh pig, warrants, 63s. 3d.; Staffordshire bars, 8l. to 8l. 10s.—Copper:

PATELEY BRIDGE LEAD MINES.—The most favourable report yet Received from these mines appears in another column. Some fur-ther considerable improvements have taken place, and the property Renerally is rapidly opening out in a manner confirming the ex-pectations generally entertained that this series of mines will quickly occupy an important position in the Dividend List.

SOUTH CWMYSTWITH LEAD MINE.—Since the starting of the SOUTH CWMYSTWITH LEAD MINE.—Since the starting of the works, on the latinst., capital progress has been made, and some very encouraging discoveries have already been met with. The manager has been instructed to at once lay out the permanent with the supersonal workings are fully developed, be in a position to deal accessfully with the great body of ore known to exist in the Kingside lodes. These celebrated lodes are stated to have yielded in the adjoining property lead to the value of several millions sterling, and every indication exists that in South

New Quebrada, $3\frac{1}{2}$ to 4; Panulcillo, $\frac{1}{8}$ to $\frac{3}{8}$; Russia Copper, Computative Mine they will prove equally productive. This fact has no doubt led to the whole of the shares being so eagerly absorbed by the directors and their friends, amongst whom are included some of the most prominent lead-mining energy out good ore ground. Other points without alteration, in demand for investment; they are now quoted $1\frac{1}{2}$ to $1\frac{1}{2}$, with 10s. paid up.

Valuable Discovery.—The Ashton Iron and Coal Company, near Bristol, have, after 11 years' working, struck the 4 feet 6 inch seam, which, it is stated will enable them to raise 700 tons a day.

LOWTHER HEMATITE IRON COMPANY.—At a meeting of the creditors of this company, held on Thursday, in Glasgow, an offer mide by Mr. D. G. Hoey, one of the partners, to acquire the whole works and assets, was unanimously accepted. The works, which were successfully started ten days ago, will now be continued in full operation.

full operation.

Bronze Steel for Guns.—Captain J. F. Owen, R.A., captain instructor at the Royal Gun Factories, Woolwich, has submitted a paper to the Royal Artillery Institution on a subject of considerable interest to artillerists—the experiments recently carried out in Austria with an alloy of copper and tin prepared by him under certain conditions, and termed by him "bronze steel." It is said that the Austrian Government has finally adopted the metal for its guns, and Captain Owen, while pointing out the causes of failure when the bronze system was tried by England, gives to the new metal a qualified approval, and thinks it may be good policy on the part of 'Austria to supply herself at once with a field armament of bronze steel on account of economy, ease, and rigidity of manufacture, and making her independent of other countries in the construction of a new field armament.

BLAST-FURNACE CONSTRUCTION.—With a view to cheapen the cost of a furnace stack without interfering with the permanency or the economic operation of the structure, Messrs. Weimer and Birkinsher, of Lebanon, U.S., have introduced a novel construction of blast-furnace, which is described and illustrated in the "Bulletin" of the Amer'can Iron and Steel Association. The heavy masonry which surrounded the stacks of the furnaces of former years has given way to the lighter masonry piers, or metal columns sustaining a mantle; and now Messrs. Weimer and Birkinbine come forward with another innovation, by substituting large cast-iron housings nearly double the height of the ordinary columns or piers. The housings support a cast-iron manulé constructed in the form of a hollow girder through which air can circulate. Below this mantle the fire-brick masonry of the bosh walls (36 in in thickness) is exposed, each course being confined by bands of 1 in. square iron, which are secured to the housings by T heads resting in slots left to receive them. A casing of boiler iron surrounds the walls are placed 6 in. of washed gravel, through which water is allowed to percolate. The housings also form supports for the circle blast and water pipes, and for a spray pipe under the the mantle. The outside of the stack above the mantle is of red brick, secured by strong iron bands provided with double clevices—a casing of boiler iron surrounding the upper portion having flue connections. The tunnel head is provided with Weimer's patent charger, which prevents the escape of gas when the bell is dropped and maintains a regular flow to hot blast and boilers. The fence is adjustable so as to be used either open or closed. The entire construction is intended to consume the minimum amount of material, and the hollow mantle, spray pipe, exposed bosh walls, light bands, and crucible casing give abundant opportunity to avoid danger from excessive temperature.

REGULLATING THE CUT-OFF VALVES IN STEAM-ENGINES WITH

minimum amount of material, and the hollow mantle, spray pipe, exposed bosh walls, light bands, and crucible casing give abundant opportunity to avoid danger from excessive temperature.

REGULATING THE CUT-OFF VALVES IN STEAM-ENGINES WITH THE GOVERNOR.—The back of an ordinary slide valve worked by an eccentric is, according to the invention of Messrs. BRODENT and WESTERBY, of Huddersfield, prepared for a cut-off; instead of being straight planed and the ports parallel to each other, they make it concave, radiating from the centre of cut-off valve sipnide, and the ports they make in a diagonal or helical position; the cut-off valve is convox and made to fit back of slide valve, and the ends cut to the same pitch as the ports; to this valve a reciprocating motion is given by means of a common eccentric. To the cut-off valve spindle is secured a toothed segment, broader on the teeth than the travel of the valve, into which is geared a worm on a diagonal shaft, with ball coupling and suitable connections to the governor, by which means the cut-off is regulated to a greater nicety than hitherto, and without the intervention of any throttle valve, which has a tendency to wire draw the steam, and prevent the full boiler pressure being put upon the piston.

METALS AND ALLOYS.—The invention of Mr. W. H. SMITH, of Edgbaston, consists mainly in the improvement and purifying of iron, steel, copper, lead, zinc, nickle, and their alloys, and treating and manufacturing these in a peculiar manner in converters, cupolas, receivers of metal, or any other suitable, with oxides of iron, manganese, titanium, vanadium, tunsgten, and chronium, either manufactured or in the natural metallic form: and he uses them either singly or together, and in such proportion or proportions as may be required, with or without sold or gaseous carbons. It also consists in au improved arrangement of tuyeres as applied to such converters or vessels.

STEAM—ENGINE BOILERS.—The object of the invention of Mr. J. C. GRAHAM, of Ballewan, is to increase the

With this week's Journal a SUPPLEMENTAL SHEET is given, which contains—Original Correspondence: Lyttle's Metallurgical Patents; the Mineral Statistics of the United Kingdom (Robert Hunt, F.R.S.); Copper Mining on Lake Superior; North American Gold Mining Company; Rich mond Consolidated Mining Company; New Quebrada Company; the Nascent Copper Process (Stephen H. Emmens, and others); the Treatment of Low Class Ores; Wheal Agra-the Boring Machine; Gold in Wales—No. III. (T. A. Redwin, F.G.S.); Mining in Wales (Sampson Trevethan); the Divining Rod (Wm. Tregay, Absolom Francis, R. Symons, and others); the Occult Sciences—Dowsers and Dowsing; Mining Investment, and Mining Speculation; Cornish Mining (Chas. Bawden); Drake Walls; West Eggair Lie (Enco Rowlands; Why are the Metallic Resources of Ireland not Developed?—Meetings of Public Companies: United Bituminous, Tolima, Silver Plume, South Caradon, Caldbeck Fells—Foreign Mining and Metallurgy—Metallurgical Reform—Steam-Engine, Stationary and Portable—Railroads of the United States—Sexton's Pocket Book for Boiler-Makers and Steam Users—Vincent's Patent Rivet-Making Machine (illustrated)—Patent Matters, &c.

LEAD ORES.

Purchasers.
Nevill, Druce, and Co.
George Burr.
Burry Port Smelting Co.
A. Eyton.
Nevill, Druce, and Co. Walker, Parker, and Co. ditto Adam Eyton. Walker, Parker, and Co. Adam Eyton. ditto BLENDE. BLACK TIN. Date. Mines. Tons c. q. lb. Price per ton. Amount. Purchasers. Aug. 31—Pedna-dreu ... 15 8 2 12 ... £51 2 6 ... £ 783 17 6—Redruth. Sept. 8—Wheal Coates ... 4 7 2 4 ... 50 12 6 ... 221 11 6—Daubuz. COPPER ORES.

COLLIERY OWNERS-SOUTH WALES.

Date. Mine. Tons. Price per ton. Purchaser. Sept. 8—South Darren 20 £ 5 9 0 Vivian and Sons.

A GENTLEMAN, five years in the LIVERPOOL COAL TRADE, wishes to REPRESENT, on commission, a COLLIERY, shipping coal at Cardiff or Swansea. Security if required.

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ZINC AND LEAD ORES MIXED TOGETHER. Particulars by letter.

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ARE PURCHASERS OF
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ASHES, SULPHATE OF LEAD, COPPER SLAGS, COPPER REGULUS
OF MATTE, TIN ASHES, and TIN SCRUPF.
MIXED METALS and DROSS, containing LEAD, COPPER, TIN, OF

D. ERNEST MELLISS, A.M., Ph.D., MINING ENGINEER AND GEOLOGIST,

52, BROADWAY, NEW YORK, UNITED STATES,

HENRY SEWELL, M.E., Will LEAVE for PERU and CHILE on or about the 17th October. All letters from that period to be addressed LIMA, PERU, SOUTH AMERICA. LONDON ADDRESS,—10, UPPER WESTBOURNE TERRACE.

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AND INVESTMENTS.

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Reference: The Presiding Officers of the American Institute of Mining Engineers, and the American Society of Civil Engineers.

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MINE INSPECTIONS AT HOME AND ABROAD.
NEGOCIATIONS FOR MINING PROPERTIES UNDERTAKEN.

BRITISH, FOREIGN, AND COLONIAL PATENTS REGISTRATION OF DESIGNS, COPYRIGHTS, TECHNICAL
TRANSLATIONS, DRAWINGS, &c.
MR. MICHAELHENRY,
Assoc. Soc. Engineers, Author of the "Lyventors' Almanae," and the "Defence of the Present Patent Law."
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Inventors advised in relation to Patents and Inventive and Industrial Matters. Pamphlet of information sent free by post. Specifications drawn. Lithographs and Drawings prepared. Searches conducted. Abstracts, Cases, an 1 Opinions drawn. Fleet Chambers, 68, Fleet-street, E.C., London (corner of and entrance in White-friars-street).

PRUSSIAN MINING AND IRONWORKS COMPANY (PREUSSISCHE BERGWERKS-UND HUTTEN-ACTIEN-GESELLSCHAFT).
EXTRAORDINARY GENERAL MEETING.

An EXTRAORDINARY GENERAL MEETING of the shareholders will be HELD on TUESDAY, the 28th of September inst., at Eleven o'clock in the forenoon, at the offices of our company, No. 13s, Steinstrasse, Düsseldorf, when the shareholders are requested to attend personally, or to have themselves represented by proxy.

ORDER OF THE DAY.

ORDER OF THE DAY.

1.—To empower the issue of priority obligations.

2.—To pass a resolution with reference to a change of the paragraphs 17 and 20 of the statutes proposed by the Council of Supervision.

3.—Change of the seat of ths company.

Referring to par. 25 of our Statutes, the shareholders who wish to exercise their right of voting are requested to deposit their shares at least eight days before the general meeting, at our office, No. 138, Steinstrasse, Düsseldorf; in London, Dublin, and Cork, at the National Bank; in exchange for certificates of deposit, and to leave them so deposited during the holding of the general meeting, as also, in the event of a representation by proxy, to have the proxy papers presented at our office test, for examination by the Direction, at latest twenty-four hours before the holding of the meeting.

THE DIRECTION.

NICKEL AND COBALT REFINING, AND GERMAN SILVER
WORKS, 16, OOZELL STREET NORTH, BIRMINGHAM.
STEPHEN BARKER begs to inform the Trade that he has the following articles for sale:

BEFINED METALLIC NICKEL.
REFINED METALLIC BISMUTH.
OXIDE OF COBALT.
GERMAN SILVER—IN INGOTS, SHEET, WIRE, &c.
NICKEL AND COBALT ORES PURCHASED.

GOLDENHILL COBALT, NICKEL, COLOUR, BORAX, AND CHEMICAL WORKS, NEAR STOKE-UPON-TRENT, STAFFORDSHIRE JOHN HENSHALL WILLIAMSON, MANUFACTURER AND REFINER Purchaser of Borate of Lime and Tincal.

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nd materials.

Advertisements and entries received up to the 25th of each month.

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For particulars apply to-R. B. OAKLEY, Manager

Notices to Correspondents.

* Much inconvenience having arisen in consequence of several of the Numbers during the past year being out of print, we recommend that the Journal should be filed on receipt; it then forms an accumulating useful work of reference.

THE FOREST OF DEAN.—Perhaps your local correspondent or some of your readers would kindly answer the following questions relative to the Forest of Dean:—

1. In 1835 an index map was published of this Forest, and also sixteen maps on a large scale; John Wesle, of High Holborn, was the publisher. Has there been any subsequent survey of the Forest, and where can these maps be purchased?—

2. What is the quality of the coal in the Whittington, Coleford, High Delf, and Trenchard veins? What is the chemical analysis of these scams?—3. The name of any moderate sized work relative to the coal field of the Forest of Dean, and the publisher's name.—W. F.: Invertexthing, Sept. 9.

THE BERRALSTON BURROWS.—Being an old resident in the neighbourhood of Ber alston, and one interested in the prosperity of mining, may I be permitte through the medium of the Journal, to enquire upon what basis Dr. Emme founds the statement that the burrows from the abandoned mines of this pari contain something like 103,000 tons of stuff that will yield from 8 to 10 ounces silver per ton F-INDEX.

silver per ton ?—INDEX.

THE SUPPLEMENTARY SHEET.—We have received occasional complaints, and of late a good many, that the Journal is delivered by country booksellers without the Supplement. Subscribers would oblige us by demanding that the paper should be handed to them complete, as every Journal is accompanied by the Supplement when it leaves our office, and the fault of omission must rest with the country beokseller or their London agent.

Received.—"W. T."—" M. W.;" Mr. Bredemeyer's letter on the Camp Floyd Quick-aliver Mines appeared in the Supplement to the Journal of June 26—"A Shareholder" (Wigginton Hall Collery Company—"Au Old Agent"—"J. W. P."—"Bhareholder" (Roman Gravels)—"C. E.; Yes; send the particulars—"Shareholder" (Van Consols): Write to the office—"Shareholder" (North Busy)—"Oymro"—"Dowser" (Callington).

IMPORTANT NOTICE—REDUCTION OF POSTAGE ON THE "MINING JOURNAL."—In con-equence of the new POSTAL COVERTION, which came into operation on July 1, the postage of the Mining Journal to many countries will be reduced to one-fourth. Henceforth the subscription will be 1/. 10s. 4d. per annum (39 frs.), postage included, for the following countries. The amount will, if desired, be collected at the subscriber's residence at the end of each year. The subscription continues until countermanded:—Austria, France, Brighum, Denmark (including Iceland and the Farce Islands), Egypt, Germany, Gibraltar, Greece, Heligoland, Italy, Laxemburg, Netherlands, Norway, Portugal (including Madeira and the Azores), Roumania, Russia, Servia, Sweden, Switzerland, United States, Malta, Turkes, Morocco, Tunis, and the Canary Islands. Spain 1/. 10s. 50 frs.)

Avis Important—Aux Abonnes etrangers du "Mining Journal pour bien des pays dont le taux des postes était jusque là bien élevé. A partir du ler Juillet le prix de l'abonnement est de 39 frs., le port compris, pour l'Auriche, Belgique, France, Danemarck et ses dependances, l'Egypte, l'Allemagne, la Grèce, l'Italie, Hollande, Portugal et ses dependances, Commanie, Russie, Servie, Suded, la Suise, la Turquie, l'Afrique septentrionale, etc. Le montant, si l'on le veut, sera touché à domicile, la fin de l'an. L'abonnement continuera sauf avis contraire.

THE MINING JOURNAL.

Bailway and Commercial Gazette.

LONDON, SEPTEMBER 11, 1875.

COAL AND IRON-OUR INCREASING TRADE IN THEM.

Whatever the advantages of the superior metals, and more especially the precious metals, there are no products of the mines comparable in their importance to coal and iron. They are not only as "good as gold," but a great deal better. If gold perished we could certainly get on very well without it, and the same may be said of silver, but without coal and iron where should we be? No doubt in a very early age flints and copper served the purposes of chisels and harmster and same other tools and instruments but while great and hammers, and some other tools and instruments, but, while great undertakings prevailed in "the copper age," the variety of purposes for which iron is now used could not be subserved without it. Iron could be well prepared for all its purposes by charcoal, and there are instances, as in Ireland and in Russia, in which coal could have been obtained, but the use of charcoal was persisted in as long as it

The production of coal is now very general in England, except in the metropolitan and some of the southern counties; iron exists and is mined in Cornwall, where, according to geological evidence, there is no coal—a most unusual circumstance, for where the one is providentially the other is there to help it, and we know that Sir Christopher Wren obtained from Sussex the iron for the manufac-Christopher Wren obtained from Sussex the iron for the manufacture of the rails round St. Paul's, but we have lost ail clue to the place of the deposits, and so fir as can be ascertained Sussex produces neither iron nor coal now. The greatest coasting trade in coal is from the Tyne, and it is also a large export entrepot, but rather more is exported from South Wales, as the quality produced better serves shipping, furnaces, locomotives, steam-engines, &c. The coasting coal trade of South Wales is, however, insignificant compared with that of the Tyne. "The cross Channel" coal business is transacted from the North-West of England, Whitehaven and Wigan yielding the supplies. The Wigan coal is sent by rail to Liverpool and Fleetwood, and thence embarked for Dublin and the North-East and South-East of Ireland, and some is sent from the Clyde for Belfast, Newry, Londonderry, and Sligo. Vast quantities of coal are sent by sea and land to the metropolis, and thence by sea and land again distributed to the metropolitan counties—Sussex, Hampshire, Buckinghamshire, the East of England, and the Channel Islands. This constitutes a commerce of great value, gives employ-Hampsnire, bucking mainsire, the East of England, and the Channel Islands. This constitutes a commerce of great value, gives employment to numbers of labouring men, and affords subsistence to large numbers also of middlemen or dealers, independent of the vast demand for every conceivable purpose of London itself.

Our foreign commerce in coal has no import item, although "Try the Belgian Coal" is placarded on all the walls of London. It is a ruse to sell English coal under the impression that the novelty of

the Belgian Coal" is placarded on all the walls of London. It is a ruse to sell English coal under the impression that the novelty of the name would go for something. It has even been regretted that at least one cargo of French coal entered the Tyne, and that coals were literally "sent to Newcastle" The export coal trade reveals the following. The declared value for the month of August of coal, coke, cinders, and patent fuel was 992,6422. In August, 1874, it was 1,171,1284, a considerable falling off. But this did not arise from less business but from lower prices, because the quantities exported last month were 1,534,826 tons whereas that month twelvemonth the quantity was only 1,436,421 tons. Similar results will come out from a comparison with August, 1873, when 425,000 tons of coal less were exported than last month. Taking the eight months of this year into account the money value of our exports was 6,373,1954, a large falling off from the corresponding period of last year, when it was 8,072,2234, and in the first eight months of 1873 8,750,0004, but here again a vast deal more business was done for less money, the comparative quantities for the three pedone for less money, the comparative quantities for the three periods being 9,277,298 tons, 8,910,616 tons, and 8,309,571 tons. It is not by any means certain that our miners and coal owners have made less profit by sending because their expenses have rger quantities for because ther expenses have been signally reduced; and if the col-liers have had less pay per ton taken out they have had more work,

liers have had less pay per ton taken out they have had more work, and spent their money more creditably.

It is astonishing the wide area over which our coal exports extend—in fact, to the whole civilised world. It might occur that we sent the comforting fuel mainly to the cold regions of the globe, but it is not so; the inhabitants of the torrid zone have been good customers—all the South American countries beneath the tropics, British India, Egypt, Turkey, and Italy have sought our coal; they wanted it not to keep themselves warm, but to move their locomotives, work their steam-engines, &c. Hence large quantities of anthracite—especially from Wales—have been exported. Our best thracite—especially from Wales—have been exported. Our best customers were those who have plenty of coal of their own, but for various reasons do not work it. France and Germany notably illustrate this. We exported to France last month 250,000 tons, greatly more than for some years, and during the two-thirds of this year which has transpired 1,750,000 tons. To Germany we sent in the month 277,000 tons, and in the eight months 1,419,000 tons (round num' ra) British India took this year 210,000 tons. Our com-mere in coal is obviously a great one. Ou. trade in iron presents the following features:—The value of

imports were in August—bar, 152,252l.; manufactured, 148,348l.; unwrought steel, 6130l. During the eight months of this year the value was—bar, 817,805l.; manufactured, 922,584l.; wrought steel, 57,493l. These figures, both for the longer and shorter period, are considerably more than usual. We do not, however, use up all this iron, we export some of it again. During the last eight months the value of our exports of imported iron was—bar, 286,120l.; steel unwrought, 32,728l. The month showed less than its proportion of those imports. Our commerce in this direction is decidedly increasing, our "re-exports" of iron and steel becoming larger from year ing, our "re-exports" of iron and steel becoming larger from year to year. Our exports of British iron for August were of the value of 2,385,000. (still giving round numbers); this was some falling off from August, 1874, and rather a heavy one from the August before off from August, 1874, and rather a heavy one from the August before that, but the quantities last month were larger than in either of the others. During two-thirds of this year run out the value was 17,750,000*l.*, against over 21,000,000*l.* in the corresponding period last year, but the quantity this year was just 40,000 tons more than that. In the first eight months of 1873 the value of British iron exported was enormous, amounting to nearly 25,750,000*l.*, 8,000,000*l.* more than in the same space of time this year, but the quantity in that great year of high prices was nearly 7000 tons less, comparing the equal periods.

It would be impossible unless in an article devoted to iron exclusively to give the details of the different quantities, our immediate purpose being to show our operations in one view of what may be called the twin metal and mineral. There is no important change in the destination to which the metal is sent. The United States is our best customer for steel, and for old iron for re-manufacture, India for wrought and manufactured. The United States for tin-plates (so-called). Australia for hoops, sheets, plates, and boiler armour. British North America, Australia, and Russia for railroad. India for bar, angles, bolt, and rod. Pig-iron is bought most by Germany and Holland. It cannot fail to be a satisfaction to learn from indisputably authoratative sources that our trade in coal and iron is not falling off but absolutely increasing, although we are unable to obtain the inflated prices of recent years. It would be impossible unless in an article devoted to iron exclu

LIMITED COLLIERY COMPANIES.

In the early part of 1873, when the price of coal was more than double what it is at the present time, and when there was a positive mania for investing in collieries, we took occasion to warn the public against speculating in such property without the strictest investigation, owing to the fabulous sums that were being given for comparatively poor concerns. Promoters of companies who bought at a moderate figure and sold at an astonishingly high one, of course made fortunes quickly but it was very different when the collieries. made fortunes quickly, but it was very different when the collieries were transferred to limited companies, for, as we stated, the large profits made by coalowners and the high wages paid to miners could only be of limited duration. On the occasion referred to we gave it as our opinion, based on most reliable data, that the price of coal in the course of a couple of years or so would come down as low as what it was in 1871. We thus endeavoured, as far as lay in our power, to prevent ruin from overtaking many a household, but our efforts were not sufficiently deterrent, for despite many warnings people appeared to believe that coal would go on increasing in price

power, to prevent ruin from overtaking many a household, but our efforts were not sufficiently deterrent, for despite many warnings people appeared to believe that coal would go on increasing in price, and that the only true road to the rapid amassing of wealth was being connected with coal mines. They appear to have overlooked the fact that the very course they were adopting was the sure means of bringing down coal to something like what we may call its normal condition, or to what it was before the extraordinary rise in price took place, so that the sums paid for collieries were not likely to result to the advantage of the shareholders. That our views were substantially correct is abundantly shown by the many limited coal companies that of late have failed and gone into liquidation, of others that are still struggling against their inevitable fate, and of a good many more who have great difficulty in paying a small dividend. It is true that fortunes have been made by adventurers who starting without a stiver of capital of their own have had placed to their credit the capital of others. But nothing is more astonishing than the ease with which people allowed themselves to be victimised, and the reliance they placed on the statements which appeared in well-devised prospectuses.

A strong proof of this we have in the case of the Silkstone Fall Colliery Company, the history of which was recently given by the Chairman, and the last scene in connection with it only closed on Thursday with the sale of the remaining plant, for the purpose of paying the debts as far as possible. The company was formed at the close of 1871, and the colliery was purchased on its behalf for 30,000%, of which 18,000% was to be paid in cash, and the remainder in fully paid-up shares. The directors, including the Chairman, had all their shares given to them to qualify for the directorate. The public, however, did not take kindly to the concern, and to give them a powerful stimulus a dividend of 25 per cent. was declared, although the concern

son for 14,000*l.*, and the person who bought them re-sold again to a limited company for 40,000*l.* At a recent meeting of a Derbyshire company much dissatisfaction was expressed at the condition and company much dissatisfaction was expressed at the condition and prospects of the company, and an indignant shareholder remarked that he had before his eyes the fate of the Silkstone Fall Company, for the half-year's working only showed a profit of little more than 2000l., whilst from the prospectus they were assured of a yearly profit of 14,000l., which, after deducting 2000l. for redemption of capital, left a sum sufficient to pay a dividend equal to 24 per cent. on a capital of 50,000l. But the company alluded to held out even a stronger bait than this, for in the prospectus it was stated it was intended to erect blast-furnaces for the smelting of the ironstone found in connection with the coal, "which it was confidently excompany on a further outlay of 50,000l."

company on a further outlay of 50,000c. Such are the ways and means that have been adopted for inveigling persons to take shares in companies that have been entirely got up for the benefit of two or three individuals. For all such concerns the year has been a most unfortunate one, for our vaticinations with respect to the price of coal have been realised to valerantions with respect to the price of coal have been reashed to the full, and there is not the slightest likelihood of its permanently rising. On the contrary, from the great number of new collieries now in course of pening out it is evident that when all are at work prices must of necessity come down, for there will be a great deal more coel raised than there will be markets for. Old-established companies will go on as usual, seeing that they were not purchased at fancy or sensational prices, but in addition to the many compaat fancy or sensational prices, but in addition to the many comparatively new ones that were taken over when coal was selling at 1l. per ton instead of 9s. or 10s., as at present, it will be very different. Many of those have already fallen beyond the power of redemption, and it will be well for the shareholders in not a few others if they at once realise their actual position, and have a careful survey made of the value of the property as well as of their prospects. By so doing they may save much ill-feeling and loss in the future, and so make the best of what they have left to them. The fate of the Silk-

stone Fall Colliery Company, as well as of the many others that we have seen recently placed in liquidation, should point a moral to investors or capitalists, showing them that money is often easier lost than earned, and that speculations in colliery property require great care, as well as honest and reliable information.

COMBINATIONS OF CAPITAL AND OF LABOUR.

COMBINATIONS OF CAPITAL AND OF LABOUR.

A most elaborate and highly interesting report of the Committee on Combinations of Capital and of Labour was read by Professor LEONE LEVI at the meeting of the British Association a few days since, and was followed by several addresses by gentlemen who had evidently paid considerable attention to the subject. The question is one which we have specially noticed quite recently in consequence of the efforts being made to consolidate in particular the various mining bodies scattered throughout the kingdom into one powerful confederation, and the action taken in consequence by the minowners to meet the threatened attack upon their rights by the workmen is in no way antagonistic to capitalists who are extensive employers of labour, but the men themselves freely admit that the object is to keep wages up. To some extent this has been admitted by Mr. HALLIDAY at the recent meeting of the Amalgamated Association—which, by the way, has been entirely swallowed up by the new combination—for he remarked that the Federation would be able to exercise great influence in the event of a struggle between workmen and their masters, and be of great advantage in other ways. Therefore, it is evident that the object of the new combination is to obtain an increased power over employers and their capital, for we find the president, Mr. MACDONALD, at a recent gathering, stating that masters were like the legislators of the country, they were just what the pencle allowed them to be a recently and the president, they were inst what the pencle allowed them to be a recently and the president, they were inst what the pencle allowed them to be a recently and the president that the pencle allowed them to be a recently and the president that the pencle allowed them to be a recently and the president that the pencle allowed them to be a recently at the pencle allowed them to be a recently and the president that the pencle allowed them to be a recently and the president that the pencle allowed them to the pro pital, for we find the president, Mr. Macdonald, at a recent gathering, stating that masters were like the legislators of the country, they were just what the people allowed them to be, and what they thought fit to make them. The plain inference to be drawn from such remarks is clear and definite, despite any attempt at qualification. Capital has had too much power, and a large portion of that power must now be taken from them and transferred to the leader of the men, and this change is to be effected by a federation powerful in numbers only. Now, we cannot refrain from saying that in our opinion too much power has been handed over by the working miners to those who never work, but become capitalists, and enjoy a life of luxuriant ease and pleasure at the expense of the toilers. It may be necessary that a certain amount of power should be given to appointed or self-elected leaders, but even that should be limited, for we know that it is not often judiciously exercised in the interior. to appointed or self-elected leaders, out even make anomal be limited, for we know that it is not often judiciously exercised in the limit rests of those from whom it is obtained. We know enough too, of the past to assert that it has not been so used, for in proof of our the past to assert that it has not been so used, for in proof of our assertion we need only allude to several strikes which have taken place in our mining districts during the present year, more particularly the recent one in South Wales, which led to such lamentable results, the miners and their families having suffered the greatest privation and suffering, although connected with what was believed to be a very powerful Union. But this great combination or federation of labour has evoked a feeling of insecurity on the part of the employers of labour, and they are now federating together for the purpose of maintaining their rights, and combatting any action which may be taken by the men to endeavour to secure by the force the purpose of maintaining their rights, and comparing any action which may be taken by the men to endeavour to secure by the fores of numbers what they would not think of asking for individually. It is evident that the result of these combinations will be to lessen the confidence which has hitherto subsisted between masters and

men, and make them more antagonistic than they have been.

In the report read at the British Association it is stated that dis agreements between employers and employed were often produced on the subject of wages by the fact that all the elements of the case were not within the cognizance of both parties, so that making a on the subject of wages by the fact that all the elements of the cass were not within the cognizance of both parties, so that making a demand for an increase of wages or in opposing a fall the men were groping in the dark as to all the circumstances relating to the subject. Admitting this to be correct, the question then arises as to who is to be considered responsible for ignorance of such essential who is to be considered responsible for ignorance of such essential elements as relate to the wages of workmen. The men have leaders who are well paid to advise them, and whose duty it is to supply such information, seeing that there is no difficulty in obtaining it, for the actual selling or market price of fuel, iron, steel, or, indeed, of almost any other commodity, is easily ascertained, whilst there is very little difficulty in calculating the cost of production. The committee suggest that were employers who were not in the dark in such matters to make known to their own workmen the ground of any action they propose taking with respect to wages before their resolve was carried into execution many disputes might be avoided, and much of the jealousy existing between the two sides would be and much of the jealousy existing between the two sides would be removed. To this we cannot altogether agree, for we remember that on several occasions such has been done, more particularly in connection with the coal and iron trades, but it had not the effect of convincing the men or their leaders, seeing it was not to their interest to take for facts the statements of their employers.

It was stated in the report to which we have alluded to that employers were seldom found to take the initiative in allowing a rise of wages when the state of the market permitted it, as they were in the case of a fall, so as to spontaneouly offer what they must ultimately know they would be compelled to grant. In answer to this, we may say that experience has shown that the workmen know full well the moment when trade is in such an improved state, or when large orders are in hand, that they can plain an advance with when large orders are in hand, that they can claim an advance with almost a certainty of its being conceded, so that they very rarely indeed give their employers time to make any such proposal were they ever so strongly inclined to do so. As a rule, too, they know full well when trade is in a depressed state. Colliers in particular in many districts have been acquainted with the fact that during the last few months mines were positively being worked without a support of the control last few months mines were positively being worked without a profit sufficient to pay ordinary interest on capital, yet no one ever heard of them proposing to their employers that their wages should be reduced, so as to meet the change which has taken place in the price of coal. But the one proposal would be equally as just and considerate as the other.

The question of a uniform rate of wages is one that has been often

price of coal. But the one proposal would be equally as just and considerate as the other.

The question of a uniform rate of wages is one that has been often discussed by us, and we have held that it is most unfair, and such is the opinion of Prof. Leon. Levt, and others who have paid any attention to the subject. Trades Unions have always endeavoured to secure the same rate of remuneration for the ordinary as for the skilled workmen in any trade. This gives an advantage to the unskilled and slow workman most unfair, and to which he is no way entitled, and so keeps down the skilled hand to the level of the mediocre one, so that there is no scope allowed for admitted ability. We, therefore, agree with the committee that uniformity of wages, however convenient it may be, is neither just nor practicable, whils any effort to compel uniformity of earning of any number of individuals must "prove fallacious and wrong as an illegitimate interference with the rights of industry."

How far combination can affect wages permanently or temporarily was noticed in the report, and the opinion of trade had everything to do with the rise or fall of wayes. Combinations for such a Dur-

to do with the rise or fall of wages. Combinations for such a purpose, however, though they might accelerate the action of economic laws, produced a state of irritation and discontent which often in naws, produced a state of irritation and discontent which often interfered with the progress of production. In connection, it may be
said, with the same portion of the report, it is followed up by an
enquiry as to whether an artificial restriction of labour or capital
can under ordinary circumstances be economically right or beneficial.
It is admitted that limiting production with a view to maintaining
prices or wages would be injurious, and could not be continued. prices or wages would be injurious, and could not be continued Yet it is stated in the report that it might be a point for considera-tion whether, under certain circumstances, it would not be betty for either capital or labour to submit to the evil of restriction in order to avoid a still greater evil of producing at a loss or working at a rate of wages not sufficiently renunerative." We know of nothing that can justify restriction of production, for where at tempted it can never be beneficial. It might do for a short time with program to conduct the next time. with regard to goods the entire supply of which English produces have in their own hands, but the increased price paid by the limit tion of production would soon induce other capitalists to go int the same business, and so, in all probability, bring prices down lower than they had been before. Any attempt, therefore, to enhance

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sept. 11. 1875. Industry the value of any commodity either to increase profits or the sweet where they could obtain similar goods on better terms. Remarkets where they could obtain similar goods on better terms. Remarkets where they could obtain similar goods on better terms. Remarkets where they could obtain similar goods on better terms. Remarkets where being forced to increased restrictions and lower wages, from the loss of custom and decreased prices, owing to competition. High prices and high wages have been not altogether a blessing to the country. If we take the coal and iron trades we find that in 1872 and 1873 prices and wages were higher than ever they were before, but what has been the consequence? The business in both has greatly fallen off, and prices have come down to a point that barely leaves a mere fringe of profit—if it does that. The coal trade was something really extraordinary in the years named, so that a greater number of capitalists went into it, and new collieries were commenced in every mining district in the kingdom, so that it was computed that within five years our productive power would be increased considerably more than 20 per cent. It is, however, evident that the time is most unhappily chosen for the formation of trade federations for the purpose of keeping wages up to a higher point than can be afforded by those who have to pay them. Looking at the position of affairs at home and abroad, we should say what is most required now is an honest confederation of capital combined with labour, for the purpose of devising the best means for not only increasing our trade, which is the reverse of good at the present time, but for beating all foreign competitors in the markets of the world, not only with respect to the quality of our products, but as to their cheapness as well. Such a combination could not fail to be of permanent advantage to both workmen and employers, instead of federations where the two classes must meet in declared opposition, if not in decided emmity. We, therefore,

FURTHER COAL DISCOVERIES IN STAFFORDSHIRE.

and labour will be the means of drawing closer togother masters and men, for the interests of both.

FURTHER COAL DISCOVERIES IN STAFFORDSHIRE. Instances are forthcoming nearly every week which should program the propertion of the national mind that practically gesting there will be coal for all ages, though not perhaps for all greaters are the propertion of unsuccessful researches of the class have diminished with the advance of time. The knowledge of geology has extended, and the science of mining engineering has made progress, and when men have been led by these two lighest they have seldom failed. Quite new colliery districts will son be yielding their fuel for the use, not alone of every one needing from and light in the daily requirements of life, but likewise of the smolters, the manufacturers, and the steam users. But movien discoveries at the same time that they reveal sources of supply in swellostlites demonstrate also that old coal field extending the subject of the smolters of the smoltant products of the smoltant prod

Throughout the whole of the area, even between the Coppy Hall and the Sandwell Park collieries, there is now but little doubt that the valuable Thick coal of South Staffordshire will be found at a workable depth, for there are no surface indications of any faults or disturbances. As was to have been expected, capitalists have quickly come forward to dear the control of the composition of th disturbances. As was to have been expected, capitalists have quickly come forward to develope mineral areas of so great promise. Some 1500 acres, known as the Perry Hall estate, have been leased to a private company by the Hon. A. C. G. CALTHORPE, who, with Lord LATHORPE, is to be a director. And the Hampstead Colliery Company is sinking upon another portion, which consists of a surface area of 494 acres, and a mineral area of 520, for which 100,000. is to be given. The engineers estimate that the depth at which the Hampstead people will find coal will be from 550 to 600 yards. The Sandwell Park estate comes up in a north-easterly direction against the south-western edge of the Hampstead estate.

The mining, iron-making, and manufacturing interests of South Staffordshire and Birmingham are to be congratulated upon the extraordinary vitality of their combined districts; for not only on the Cannock Chase and Shropshire side is there plenty of scope for profitable enterprise, but likewise upon the Birmingham edge of

the county there is equal ground for cheerful confidence—all occasioned by successful mining enterprise in areas at one time believed to be utterly devoid of fuel. Nor must it be forgotten that whilst all this is happening steady progress is being made by the Mines Drainage Commissioners towards the releasing of millions of tons of coal and ironstone, which for many years have been altogether submerged, a source of constant expense to its owners, and of grave danger to the lives of workpeople in adjoining mines.

IRON AND STEEL INSTITUTE.—The progress which this useful institution continues to make must be gratifying to all, no matter what particular branch of our national industries they may be connected with, since the knowledge and information elicited at the periodical meetings of the members, one of which is reported in another column of this day's Journal, cannot but tend to facilitate the manufacture of the best quality of metal at the lowest possible price, whilst it is a well recognised fact that where good iron and steel are obtainable cheaply, especially when the cost of fuel is correspondingly low, there industry and commerce most largely prosper. The secretary, Mr. Jones, had the satisfaction of stating that the number of members is now about 900, and the long list of new members and candidates for membership announced gives abundant proof that the interest of those connected with the trades represented continues unabated. From its earliest inception the Iron and Steel Institute has enjoyed the utmost good fortune; its four first presidents have been men of the highest position in the iron trade—the Duke of Devonshire, Henry Bessemer, Isaac Lowthian Bell. and Mr. Menelaus—and it includes among its members dozens of others scarcely less prominent as metallurgists. The great invention of Bessemer will cause his name to be remembered throughout all time, and the metullurgical researches of Bell are too well known to need comment, whilst to Menelaus may really be attributed the development of the system of mechanical puddling, for it was he who first practically tested the principle on a large scale, and pointed out the defects in such a manner as to enable Danks and others to remove them. The papers brought forward at the Manchester meeting, although for the most part less closely connected with iron metal lurgy, included one by Mr. Isaac Lowthian Bell, M.P., upon the relative advantages of calcined and uncalcined limestone in the blastfurnace, which will no doubt give rise to much discussion. Opinions appear that where the furnace is properly constructed and of ample height no good result follows from calcination, though when a furnace is ill constructed and overburdened some benefit results. The recep-tion of the Institute at Manchester was very hospitable, and, pro-bably, no more successful meeting has been held.

tion of the Institute at Manchester was very hospitable, and, probably, no more successful meeting has been held.

AMERICAN STEEL GOODS IN ENGLAND,—English edge tool makers in particular are aware of the success with which certain of their business rivals in America have hustled them in many of our home and foreign markets. So large, however, is the demand at present for good edge tools of almost every description that there are few edge tool firms in the United Kingdom who have not got plenty of orders upon their books. The English article is not, therefore, out of use, but there is a perceptible increase in the favour in which handy and thoroughly excellent tools are held both at home andiabroad. And this is being encouraged by the growing facilities for manufacturing steel, both shear and cast. Sensible of this, certain American firms are pushing their opportunity. Hence it comes about that American forks, shovels, and axes are to be had wherever edge tools are offered in this country. But it would seem that the Americans believe that they can compete with us much more successfully by having branch establishments to manufacture their specialities in this country rather than by shipping their product from the other side. A firm of cast-steel shovel makers at Pittsburgh (Messrs, Hussey, Binns, and Co.) who have recently brought out a shovel in which the straps, though of iron, are compacted with the steel during the process of casting, and who are making at a very low figure, and with very little manual labour, shovels that are getting very rapidly into use throughout the States, are now, through a representative who has recently come over from Pittsburgh to England, making enquiries which will regulate their action, and determine them whether they will offer their process to English firms, or to an English company. If American edge tool makers should begin to produce here goods that are already running English makers hard, then it is to be inferred that their example will be followed by other Transatlantic ha are is another matter.

Coal and Iron in the United States.—The movement of coal over the Baltimore and Ohio Railroad in the year ending Sept. 30 1874, amounted to 2,209,762 tons: this total included 431,134 tons required for the company's own supply. The aggregate movement of coal over the system in the year ending Sept. 30, 1873, was 1,778,628 tons. In the course of the year ending Sept. 30, 1874, the Baltimore and Ohio Railroad Company used 7946 tons of steel rails in repairing and constructing additional tracks on the main stem. American iron rails are quoted at the works at \$50 to \$53 currency. English rails have been quoted at New York at \$48 to \$50 gold. The production of anthracite coal in Pennsylvania to Aug. 7 this year was 10,013,446 tons, against 11,560,251 tons in the corresponding period of 1874, showing a decrease this year of 1,546,805 tons. The production of bituminous coal in Pennsylvania has presented a small increase this year.

corresponding period of 1874, showing a decrease this year of 1,546,805 tons. The production of bituminous coal in Pennsylvania has presented a small increase this year.

Compulsory Mines Drainage scheme has been alvanced another stage by the confirmation, on Tuesday, of the award of the arbitrators relating to the Tipton district. This progress was not made without opposition, but the opposition was not distinguished by such pertinacity as had previously been manifested, and in most in stances was accepted by the Commissioners who sat as judges as in some degree well founded. Pacts were adduced which showed how extremely expensive are the private pumping operations of certain of the colliery proprietors in that part of the kingdom. The first appellants against the award were the Patent Shaft and Axletree Company, who simplified their objections by dividing their property into three sections. In the first (80 acres in extent) they raise 389,986 gallons of water per day, at a cost on the coal of 10th per ton; in the second—consisting of 180 acres—their diurnal pumping averages 803,000 gallons, and taxes every tun of coal with is 2.4cd; and in the third (only about 125 acres) they bring to the surface nearly 600,000 gallons, and increase the cost of their coal by 2s. 6d. per ton. In accomplishing all this they had to employ seven pumping engines and two barrels, and in drawing the 600,000 gallons they drain mines which overspread an area of one mile. Earl Dudley, represented by his mining agent (Mr. Fisher Smith), desired exemptions from the rate for those of his mines which overspread an area of one mile. Earl Dudley, represented by his mining agent (Mr. Fisher Smith), desired exemptions from the rate for those of his mines which overspread an area of one mile. Earl Dudley, represented by his mining agent (Mr. Fisher Smith), desired exemptions from the rate for those of his mines which were shove the water level, that the rate for those of his mines which were shove the water level, that the rate for those of hi

decisions, like the arbitrators by their awards, aim not at rendering available the extensive tracts of mineral now altogether submerged, but at accomplishing work urgently needed to prevent an extension of the impediments already existing.

REPORT FROM CORNWALL.

REPORT FROM CORNWALL.

Sept. 9.—We have been on the very verge of a furore in share dealing within the past few days, if indeed it may not be considered that in some instances, at any rate, the boundary was overstepped. Whatever good luck the future may have in store, let it not lead to undue excitement, which does, in the long run, good to no one. If only a little of the unwise eagerness which has been already manifested could have diverted into some healthy channel, for example, the preservation of St. Ives Consols—the existence of which, we are afraid, is in sad jeopardy, since sales of going concerns are very uncertain—what a benefit it would have been. But utility is not the direction that this kind of share traffic takes.

Practical men who have made enquiry into the operations under the Nascent process at Holmbush and New Consols quite endorse the opinion expressed as to its success in last week's Mining Journal.

From 8 tons to 9 tons of precipitate per month are now being made from ores that were previously thrown away, the price realised for the precipitate being about 70t, per ton. It is a well-known fact that in many of the abandoned copper mines of Cornwall large quantities of copper ores of a low percentage are discovered, but remain unworked, but with the extraction of this copper proved a commercial success. It is contemplated to re-work some of the mines that were abandoned about 50 years since, and, in addition to the raising of copper ores of the ordinary quality, to proceed, by the Nascent process, with the extraction of the copper contained in the poorer sections of the workings. There can be no doubt that with judicious management and an adequate capital many of the old mines will pay for re-working. It is cheering also to find that some of the newer copper mines are showing good results, and are coming to market with their ores. In some mines also that were formerly rich for copper, but have been chiefly worked for several years past for tin, the attention of the agents have been chiefly

rich. We need not say that the work, in such hands, has been thoroughly well done.

One of the poor fellows who suffered from the effects of the foul air in Great Wheal Lovell—Jenkins—has died, and an inquest has been held upon him. The jury returned what was in effect a verdict of "Accidental Death," believing that Capt. Prisk had done all in his power to clear the mine of the noxious atmosphere. According to Dr. Foster's view, however, two of the steps taken—the burning of furze and the flashing off of gunpowder—were calculated rather to make matters worse under the circumstances, though under other conditions they might have had the end desired. Technically, a breach of the law has been committed, but it is hardly likely that it will lead to further action.

conditions they might have had the end desired. Technically, a breach of the law has been committed, but it is hardly likely that it will lead to further action.

It is much to be regretted that the adventurers in St. Ives Consols determined at their meeting, on Monday, to wind-up the concern, for although it is true that at present the mine is not remunerative all the heavy work has been done, and the prospects are such that, with the advance in the price of tin, which all very confidently look forward to, good profits may be expected. Less than 17,000l, has been expended upon the property altogether, and it was stated that, assuming the mine to be to wound up at once, the total liabilities would be 5500l, and the assets but 1000l, less. As the halvans are the accumulation of about 60 years it was estimated that by stopping the mine and selling the machinery and materials there would be an available credit of at least 1500l, after paying off all liabilities. The immediate cause of the stopping is the relinquishment by the trustees of the Earl of Lauderdale's estate, who hold 359 out of the 740 shares of which the mine consists, leaving but 381 to carry on the mine. This is no doubt gloomy, but as Mr. Bolitho has expressed his willingness to take 100 shares in the new company, the purser (Mr. Aplin) and Capt. S. Williams have agreed to treble their present interest, there certainly seems to be no reson for stopping the mine. Surely a new company might be formed, with a capital of 19,000l, in shares of 10, each, to purchase the property as a going concern for 7000l, which would provide for paying off the 5500l, existing liabilities, and leave the 1500l, which would provide for paying off the 5500l, existing liabilities, and leave the 1500l, which would provide for paying off the 5500l, existing liabilities, and leave the 1500l, which would provide for paying off the 5500l, existing liabilities, and leave the 1500l which me would really cost them but 2500l, much of which meight be reconstituted upon such favourab

where the standard of the algorithm meeting the lies of stopping the mine will be abandoned.

Wheal Grenville has recently been inspected by Capt. Josiah Thomas, manager of Dolcoath Mine. Capt. Thomas in his report says that the chief point in the mine is the development of the great flat lode (or the South Condurrow lode), which has been intersected at the 130, 140, 150, and 160 from the new shaft, and at the 130 from the north shaft, which is 90 fms. east from new shaft. Capt. Thomas speaks favourably of the lode at the various points opened upon, and in regard to the reserves he says that from the small amount of ground that has been opened on the lode, it is difficult to arrive at their value, but there is no reasonable doubt that when the lode is more fully developed large quantities of tin will be returned for many years to come. With regard to the machinery, Capt. Thomas says it is probable that more pumping and stamping power will eventually be required, but before this outlay is entered upon it would be prudent to see more of the lode. The stamping power, Capt. Thomas thinks, is sufficient for the present. As these opinions fully confirm those of the management of the mine, it must be satisfactory to the adventurers to have the judgment of their agents thus endorsed. These views, coming from such an authority as Captain Thomas, are also an effectual answer to the exagerated statements that have lately been published as to the present inefficiency of the machinery at the mine. machinery at the mine.

TRADE OF THE TYNE AND WEAR.

Sept. 8.—The Coal Trade, on the whole, continues very dull; the lemand for house and gas coal has improved a little, but only firstclass coal finds a market that will produce prices at all remunera-tive. Manufacturing coal and all second-class coals are very plentiful, and consequently the prices received are very bad. The question of a further reduction in the prices of the miners continues to attract

a further reduction in the prices of the miners continues to attract serious attention, and it is likely that some resolution will be arrived at soon by the masters on this ticklish question.

The Iron Trade continues to improve slowly; at Middlesborough, on Tuesday, the attendance was smaller than usual, owing to the absence of many who are attending the meetings of the Iron and Steel Institute at Manchester. The return of the ironmasters' stocks for the North of Fordand ware posted and were read-Steel institute at Manchester. The return of the ironmasters' stocks for the North of England were posted and were read with interest. The make of pig metal during August, as compared with July, was reduced by 23:29 tons, the whole make for the month being 166,241 tons. Of shipments to foreign ports there were 31,013 tons, whilst above 23,000 tons were shipped coastwise, chiefly to Scotland. Makers' stocks were reduced by 1153 tons, standing at the end of August at 99 479 tons. There are 113 furnaces in blast, and 43 out of blast, many of those out was not in a condition to be slighted. of blast; many of those out are not in a condition to be re-lighted.

The general feeling in the market was stronger, and more money was asked for pig-iron, especially for foundry numbers. The quotaMINANG TULLSAM

tions were-No. 1, 57s. 6d.; No. 3, 47s. The manufactured iron trade without change; it continues bad, and there is no improvement

NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS.—A general meeting of members will be held on Saturday, when the secretary will read a "Memoir of the Life of the late Mr. Thomas Emerson Forster," written by Mr. G. C. Greenwell, manager of the Poynton Colliery, near Manchester. It appears that it has been arranged to have a meeting of the members in the Barnsley district, they having accepted the invitation of the Council of the Midland Institute of Mining, Civil, and Mechanical Engineers. Device the state of the Midland Institute of Mining, Civil, and Mechanical Engineers. tails of the arrangements for the meeting will be given on Saturday.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

Sept. 9.—The Coal Trade of Derbyshire is slightly better than it has been, and a very fair business done with the metropolis, where the price of household qualities has recently advanced about 1s. per ton. A considerable number of miners, however, are still on strike in the vicinity of the Butterley Company's pit, against a proposed reduction of wages. The company, which is composed of two families, are the most extensive colliery owners in the country, and have always treated their workpeople with marked liberality; but this appears to make but little difference, for when trade was bad and prices low the men refused to make any concession whatever. and prices low, the men refused to make any concession whatever. Of course, the miners in other districts support those who are out, and, although the latter are not connected with the Union, they have applied for support to the new confederation, of which Mr. Macdonald has been installed the Chairman; and they are likely, it appears, to obtain substantial aid. The opening of that portion of the new line of the Great Northern Railway between Pinxton and Nattingham, opens, out a considerable avent of minerals that has Nottingham opens out a considerable extent of minerals that has hitherto been entirely in the hands of the Midland Company, and it will be interesting to note the result. It is not likely to affect the position of the Midland to any appreciable extent, for that company has been most liberal towards the colliery owners on the entire route from Sheffield to Chesterfield, and along the whole of the Erswah Valley, by giving pleaty of siding accommodation as

pany has been most liberal towards the colliery owners on the entire route from Sheffield to Chesterfield, and along the whole of the Erewash Valley, by giving plenty of siding accommodation, as well as making branches from the main line to the various collieries in Derbyshire. It can, therefore, claim the undivided support of the coalowners for what it has actually done for them. Lead mining has undergone no change of late, the production being regular, and about an average.

There is a little more doing in one or two branches of the Sheffield trade, but there are several that are only indifferently off for orders. The heavy armour-plate mills have been kept going very well, and the same may be said with respect to the Bessemer rail mills in the town and neighbourhood. Foundry material continues in very good request, especially stoves, kitchen-ranges, palisadings, and ornamental castings. The engine-works, although fully employed, are not so active as they have been. Some descriptions of cutlery are in better demand, but cast-steel by itself is quieter. At the collieries in South Yorkshire trade has improved a little, and prices of both house and steam coal are firm. The wages question has been abandoned, for at the meeting of colliery owners, held at Sheffield on Monday, it was resolved that the proposed reduction of 10 per cent, should not be enforced. This, of course, makes the miners quite jubilant, and it certainly is to be regretted that the proposal was made at all, for it gives the men the opportunity of questioning the unanimity of the members of the Masters' Association, and in the future may be referred to as showing that a bold front can deter masters from attempting any reduction of wages, even when the state of trade really warranted such.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Sept. 10.—The Iron Trade of South Staffordshire is still in an unsettled state, owing to the continued wages agitation, a section of the finished ironworkers having refused to accept the liberal concession which was offered by leading representatives of the trade at Birmingham last Thursday. In the opinion of most people the concession was more than the condition of the trade properly justified, and the persistence of the men in rejecting it is the subject of much adverse criticism. Higher wages than are now offered would certainly render finished ironmaking an unprofitable, if not an altogether losing game. The course of prices is pretty much as quoted last week. Common cinder pigs are quoted 2l. 15s. per ton, and medium qualities in the usual proportion to that standard. For best native all-mine pigs the price is steady at 4l. 10s. for hot air, and 5l. for cold-air makes. Messrs. Dawes and Sons have blown out one of their Withymoor furnaces, near Dudley, thus reducing the total number in operation to 69. In finished iron the transactions of the week have been unimportant, sheets being the only description comweek have been unimportant, sheets being the only description commanding anything like a notable enquiry. Common (unmarked) bars are offering at 71. 15s. per ton, but branded iron continues steady on the basis of 10t. per ton for bars.

The feature of the Coal Trade is the continued improvement in the demand for best coal, while inferior qualities are comparatively neglected. Selling prices remain pretty much asqueted a week ago.

the demand for best coal, while interior qualities are comparatively neglected. Selling prices remain pretty much asquoted a week ago. The trial-boring for coal at Huntington, near Stafford, is now an assured success. We briefly mentioned last week that a 5-ft, seam had been struck at the easy depth of 145 yards. This week a second seam of 16 in. has been passed through, and the bore-rods are now in fire-clay, the appearance of which is all that could be desired. The shares of the company have advanced during the week from 2 to 5 prem. The importance of the discovery now made, which virtually establishes the long-debated theory as to the correlation of the South Staffordshire and Shropshire coal fields, can hardly be over-estimated. over-estimated.

The directors of the Hamstead Colliery Company (Limited) have concluded a contract for the erection of an engine and engine-houses.

The works will be completed about the middle of October, when

The works will be completed about the middle of October, when the sinking of the shaft will be prosecuted with vigour.

A meeting of the Hawne Colliery Company (Limited), was held at Hales Owen, on Wednesday. The notice convening the meeting stated that the shareholders would be asked to consider the position of the affairs of the company, and to take such action as might Non of the affairs of the company, and to take such action as might be deemed advisable. Accompanying the notice was a circular which explained the position of the company. The purport of the circular was that at the general meeting, held on Feb. 29, it was announced that the purchase of the colliery had been completed by means of two mortgages—the first a charge of 20,000., and the second an issue of debentures to the amount of 60,000., of which the vendor, Mr. Wiggington, agreed to take 41,250. for the balance of purchasemoney due to him. With the remaining 18,750. of debentures the directors hoped to be able to develope the colliery with complete success. The mortgage was effected and the debentures were issued, and 41,250. worth was handed over to the order of Mr. Wigginton; and Messra. Gilbert and Merchant, who carried on business under thestyle "Gilbert, Sons, and Co." and, as to Mr. Gilbert, also under the style of "C. the style "Gilbert, Sons, and Co." and, as to Mr. Gilbert, also under the style of "C. B. West and Co.," were instructed to dispose of the remainder for the company. Messrs. Gilbert, Sons, and Co., at the same time, undertook to supply necessary money to carry on the works, until they could place the debenture bonds. But the brokers had endeavoured to conceal from the beard the fact of a large number of bonds having been sold, and the directors, crippled in their funds, had felt it their duty to call the shareholders together and lay the facts before them, more especially as the works had now progressed to a position which showed the mine to be not less valuable than represented. The Chairman (Mr. J. C. Davis) presided, and read a letter from Mr. Gilbert, dated Paris, Aug. 3, in which Mr. Gilbert promised to send a cheque for 200%. by the following Tuesday, and pay over 100%. In a month on account of the company, and promising further to deposit bonds of the Calsse de Cautonment, value 10,000%, to be returned when he had paid 500% to the company, and that instructions should be given to a French railway company from whom they expected a considerable amount to puy to the Hawne board bonds for from 500% to 10,000%. But none of these promises had, the Chairman said, been carried out.

from whom they expected a considerable amount to pay to the Hawne court from whom they expected a considerable amount to pay to the Hawne court position that the company and occurred out.

Mr. Newbold said, seeing the very unsatisfactory position that the company mow coccupied, he should move, "That this meeting hereby resolves that a committee of investigation be appointed to thoroughly sift the present position of the company, with full power to examine all directors, brokers, managers, and servants in any capacity whatever, and to compel the production of all deeds, books, documents, letters, and papers relating to the affairs of the company; and that such committee do present their report to an adjourned extraordinary general meeting, to be held at such time and place as this meeting shall hereafter appoint, and that such committee on the constitution of five members—Messrs. Edwin Booth, Joshus Jackson, George Williams, Robinson, and Eustace."—Mr. Eustace said he must decline to serve on the committee, as he lived so far away. After some discussion, in the course of which objection was taken to certain of the statements made in the directar, the motion for appointing a committee of investigation was put and carried unanimously, the names of the gentlemen to compose the committee being left for farther discussion. The following gentlemen were next elected a committees;—Messrs. Jackson, G. W. Robinson, T. Phillips, Aifred Fereday, and Chas.

Humphrey. The Chairman was also elected on the committee on behalf of the directors.

The committee of enquiry, appointe! by the meeting on Wednesday, sat on Thursday, at the Old Bush Hotel, Dudley. All the members of the committee were present, and in attendance were Mr. De Boos, the solicitor of the company, who was employed to act on behalf of the committee, and Mr. Stubbins, of the Midland Circuit, harrister-at-law (instructed by Mr. De Boos). The committee went carefully through the books of the company; and Mr. Durks and Mr. Jarvis, two of the directors, afforded them every information respecting the circumstances and particulars of the transactions and position of the company. Mr. Wiggington, the vendor, offered himself for examination; after which the committee adjourned till Thursday next, on which day it was appointed to meet at the offices of the company, in London. As a result of this meeting, it is considered probable that the company will forthwith be placed on a sounder footing and extricated from its difficulties.

The following were included in to-day's quotations on the Rir-

the company will forthwith be placed on a sounder footing and extricated from its difficulties.

The following were included in to-day's quotations on the Birmingham Stock Exchange:—Sandwell Park Colliery, 37; Cannock and Huntington Colliery, 5 prem.; Pelsall Coal and Iron, 5 dis.; Metropolitan Railway Carriage, 43 prem.; John Bagnall and Sons, 5; Chillington Iron, 5.

The North Staffordshire coal trade wages dispute has been settled by arbitration, Mr. Horatio Lloyd, Q.C., being the umpire. The masters proposed a 10 per cent. reduction. The award is for 12½ per cent. reduction, so that the men lose 2½ per cent. by the arbitration. The iron trade presents no change of importance either in the pig or finished department since our last notice.

Muntz's Metal Company, whose interim dividends have been restricted by the Articles of Association to 5 per cent., are now delaring one at the rate of 10 per cent. per annum for the half-year ending June 30. This is exceedingly satisfactory, considering the depreseed condition of trade.

ondition of trade.

Mr. Casson, of the Round Oak Ironworks, has appealed to the Court of Chancery to grant an injunction to restrain M. Dormoy from dealing contrary to an indenture which he had entered into with him in reference to the well-known Casson-Dormoy puddling furnace. The Vice-Chancellor granted the injunction until the hearing of the suit

furnace. The Vice-Chancellor granted the injunction until the nearing of the suit.

The South Staffordshire Mines Drainage Commissioners have this week disposed of several important cases of appeal against the rates. Earl Dudley's rate on limestone was reduced from 3d, to 1½d, per ton; Messra. P. Williams and Son's rate on coal from 3d, to 2d; the Patent Shaft and Axle Company were exempted; and the Moorcroft Colliery Company were reduced from 3d, to 2d, per ton. An appeal on behalf of Mr. Yardley was not entertained. Mr. Rupert Kattle presided at the Court.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

Sept. 9.—So slight is the variation in trade in this district from week to week that it is difficult to avoid repetition; but there is one subject all engrossing, and it must be admitted that it is important, for upon it will depend to a great extent the relations between capital and labour in future. The difficulty in the way of the Conciliation Board meeting is not yet removed, tut rather it is of greater magnitude than last week it was supposed to be. An important meeting was held at Newport, when Mr. W. S. Cartwright explained to Mr. Henry Mitchard, one of the committee appointed by the men, the nature of the objection the masters had to Mr. A. Macdonald, M.P., sitting on the board. He quoted some extraordinary utterances made by Mr. Macdonald in addressing the Miners' Association in February, which were to the effect that the mineowners of South Wales had rendered themselves infamous by resorting to the lock-out. He charged the masters with an attempt to starve the wives and children of the men by locking the latter out after they had consented to go to work, and he wished that the names of Crawshay, Fothergill, Davis, and others would go down to posterity with infamy, as poltroons who attacked women and children deserved. So it is now made clear that Mr. H. Vivian, M.P., is not the only one who objects to sit at the board with Mr. Macdonald. Mr. Cartwright, however, assured the representative of the men that the would withdraw them, they would all be pleased to see him sitting on the Conciliation Board, for they regarded him as a proper representative of the men. Just an acknowledgment of error on the part of Mr. Macdonald would set matters right, and the board might set about its work, which is important, and which, Mr. Cartwright said, the masters were anxious to see accomplehed, believing that it would prevent such disastrous things as strikes and lock-outs in future; but the matter having been laid before Mr. Macdonald would set matters right, and the board altogether.

altogether.

The improved tone which has taken place in the iron market in regard to pig-iron does not affect this district to any material extent, as the mauufacture consists mainly of railway iron, for which the demand is still very slow, and the mills are but badly employed. Prices continue to weaken, but there is no great alteration to note. There is no doubt that improvement in this branch will come about year gradually, and perhaps it will be some months. will come about very gradually, and perhaps it will be some months before there will be any material change to note. With all the care makers have taken to limit the manufacture of tin plates, the trade

continues very dull, and the course does not appear to affect the market to any extent.

Steam Coals are still in good request, and there is a tolerably extensive trade doing, but prices are so low that profits are very small. The exports are above the average, but there is little doubt that if the demand were half as large again it could be met without difficulty, so much has the productive capacity of the collieries in-

creased.

Mr. R. C. Evans and his two co-proprietors of collieries in the Rhymney Valley have been fined 10*l*. each for not employing an efficient man to inspect their workings every morning. The case was heard before the Caerphilly magistrates. It was alleged that two men lost their lives in consequence of the infringement of the Act.

REPORT FROM LANCASHIRE AND CHESHIRE.

Sept. 9.—There has been since last report a fair amount of business done in better qualities of coal, but the market continues in a very depressed state, and common descriptions of fuel are almost unsaleable. The settlement of the dispute in the Oldham cotton trade has helped to improve the position of affairs, and there are hopes that the winter demand will be so good as to place the trade on a much better footing. The Iron Trade continues very dull, and engineering departments are agitated on questions of wages which

engineering departments are agitated on questions of wages which do not at present promise an amicable settlement. There seems likely to be a dispute at Barrow by reason of a notice of a reduction of wages given by the Barrow Hematite Iron and Steel Company.

It will be remembered that during the last strike in West Lancashire some of the colliery proprietors declined to join with the other masters in the course that was taken, and continued at work while the struggle on a 10 per cent. reduction, which was eventually decided against the men, was in progress. Amongst those gentlemen was Colonel Biundell, the proprietor of the extensive works known as the Pemberton Collieries. During the past few weeks he has given notice of a reduction which will bring wages at his colliery dewn to the same level as those paid at the collieries where the strike took place. The notice of reduction only comes into operation to-day, and it is not yet known whether there will be any dispute on the matter or not.

not. rt of the directors of the Pearson and Knowles Coal and Iron Company The report of the directors of the Pearson and Knowles Coal and Iron Company for the past year is as follows:—In presenting their second annual report the directors have to remark that the business of the company has been carried on during the past year under circumstances of considerable difficulty. In the coal trade there was a strike of many weeks' duration, and in the price of both iron and coal there has been a continuous and heavy fall, accompanied by extensive disorganisation in mercantile affairs, which has led to a contraction of trade and to increased risk. The directors are, however, able to present a report which, under the circumstances, they consider very satisfactory. The profits for the year amount to 71,504. 4s. 2d. An interim dividend at the rate of 6 per cent. per annum vapaid on both the A and B shares for the half year ending Dec. 3l last, amounting to 24,750. The directors now recommend that a dividend, free of income tax, at the rate of 8 per cent. per annum, be paid on the B shares for the half-year ending June 30 last, and the usual preference dividend at the rate of 6 per cent. per annum

en the A shares, as provided by the Articles of Association. The divided, a above, will absorb 31,0334, and there will remain a sum of 21,7384. 4s. 34. to be disposed of, and of this amount the directors recommend that 20,0004, be added the reserve fund, which will then stand at 25,0004, and that the balance, 17344 to be excited to the next account." The report has been added to the next account."

en the A shares, as provided by the Articles of Association. The dividend, a above, will absorb \$1,033/., and there will remain a sum of \$21,731/. 4s. 2d. to be also posed of, and of this amount the director recommend that \$2,000/. be added the reserve fund, which will then stand at \$25,000/. and that the balance, 1731/. 4s. 2d. be carried to the next account." The report has been adopted by the shareholder and the recommendation of the directors agreed to.

The directors of the Wigan Coal and Iron Company in their report for last hall year say—"There has been an increase both in the quantities raised and sold during the last six months. The prices of both coal and iron have again fallen very considerably without any reduction of wages having been made. "Aftelen very considerably without any reduction of wages having been made." Aftelen very considerably without any reduction of wages having been made. "Aftelen very considerably without any reduction of wages having been made." Aftelen very considerably without any reduction of wages having been made. "Aftelen very considerably without any reduction of wages the past half-year, and there is not us present any prospect of improvement. Bome cargoes of ore have been laid off from the company frey property in Algeria, and works have been laid offered the last poses that a sum of 10,000°. shall be withdrawn from the company, free from income tax, which your directors recommend for adoption. The auditors report on tax, which your directors recommend for adoption. The auditors report on tax, which your directors recommend for adoption. The auditors report on tax, which your directors recommend for adoption. The auditors report on tax, which your directors recommend for adoption. The auditors report on the stands of \$1.55. 2d., against 67,813. 0s. 6d. held on Dec. 31, 1874. During the last and the following:—The sum of 34,7454. has been deducted for depreciation due to \$1.50. 2d., against 67,813. 0s. 6d. held on Dec. 31, 1874. During the last amount now owing on this a

paring the items.

The miners of the Wigan district held their annual demonstration on Monday,
Mr. William Pickard presided, and Mr. Macdonald, M.P., was one of the speaker.

THE SCOTCH MINING SHARE MARKET-WEEKLY REPORT AND LIST OF PRICES.

During the past week the market has been quiet, and no morments of special importance have taken place. Shares of from an old concerns are slightly firmer, though the various reports now being insured by the different control of the various reports now being insured by the control of the property of the past of the p

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Richmond Young's (all paid),

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for copper, no very flat, fall is owing, but a satis-outh Crofty, West Maria araffin, 5 to 10%. I uvestment

ters)higher, at ¼ to 1¼. Hasgow En-he directors They have involved in

involved in ong-continued to the Wales, siderably did instructed the continued of the continued of the continued one to avail the directors of the the steamers 954 and 9%.

the steamers 9 ½ and 9 ½, Poldice have to ¾. Seet-

iny improve-ition, having t Frances on Port Wash-

shares again to 61/2. Mar-ew Sharlston 111/4 to 11/4. mprovement

mprovement ain at 70, and 19%. West closing 5% to

101/4 to 101/4. to 28s. Great one at 6, closing 24 to 34. v Pembroka, losing 97/4 to 340,000. The done at 71/4. his company,

5.5. 10½, The large at a per 64. 19s. 6½d, 2996. 3s. 63d, 2996. 3s

LY

Parafin done at 5%, closing 5% to 5½. Scottish Wagon (all paid), 10% to 10%; sed sew (&. paid) sharces, 82s. to 84s.

The following are this week's prices of some stocks, shares, &c., occasionally dealt in on this market, but not quoted (with few exceptions) on any of the Scotch Stock Exchanges:—Iron, Steel, and coll Companies: Andrew Knowles and Sons, 22½ to 22½; Bolckow, Cal Companies: Andrew Knowles and Sons, 22½ to 22½; Bolckow, Cal Companies: Andrew Knowles and Sons, 22½ to 22½; Bolckow, Cal Companies: Andrew Knowles and Sons, 22½ to 23½; Cardiff and Sansea Steam Coal, 2½ to 3½; Chapel House Colliery, 3½ to 3½; Creat Searce Coal and Iron, 25% to 37%; Mersey Steel and Iron, 4% to 5; Mwyndy and Ogne, 2; Newport Abercarn Colliery, 3½ to 4; New Sharlston Collieries, preferred, ion 2; Powell's Llaintvit Colliery, 1: 02; Scottish Australian Mining, new shares, 1888; South Cleveland Ironworks, 2½ to 3; Ulverstone Mining, 10½ to 11; United \$180; South Cleveland Ironworks, 2½ to 3; Ulverstone Mining, 10½ to 11; United \$180; Downley Lead, 71; Ac., Companies: Bedford United, ½ to 1; Bensberg Lead, 3½ to 4; Seet Cumberland Iron and Steel, 3½ to 9½.—Copping, Lead, Tin, &c., Companies: Bedford United, ½ to 1; Great Laxey, 14½ to 4; Seet Cumberland Iron and Steel, 3½ to 9½.—Copping, Lead, Tin, &c., Companies: Bedford United, ½ to 1; Great Laxey, 14½ to 15; Walls, 2 to 2½; East Caradon, 1½ to 1½; Elgar, ½ to 1; Great Laxey, 14½ to 15; Walls, 2 to 3½; Court Grange Lead, 3½; Drake Sowios Hill Manganese, ½: Copiapo Mining, 33 to 1½; New Pembroke, ¾ to 5; South Roskear, 4 to 5; West Engair Lie, ½ to 1; West Maria and Fortescue, ¾ to ½; West Police, 14 to 15; West Engair Lie, ½ to 1; West Maria and Fortescue, ¾ to ½; West Police, 14; West Engair Lie, ½ to 1; West Maria and Fortescue, ¾ to ½; West Police, 14; West Maria and Fortescue, ¾ to ½; West Police, 14; West Maria and Fortescue, ¾ to ½; West Police, 14; West Maria and Fortescue, ¾ to ½; West Police, 16; West Engair Lie, ½ to 1; West Maria and Fortescue, ¾ to ½; West Polic

...58 7d | ...
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... 10 ... 7 nil nil 12½ 10 208 | ... 121/2... ... 9 ... 23s. ... 4 ... 10 ... 10 nil 25 25 GOLD, SILVER.
Emma Silver Mining (Limited)
Flagstaff Silver Mining (Limited)
Last Chance Silver Mining (Limited)
Richmond Mining (Limited) 5 .111s. 6d Last day for this account Sept. 11; settling day, Sept. 15.

J. Grant Maclean, Stock and Share Broker. Post Office Buildings, Stirling, Sept. 9.

THE BRYN ALYN LEAD MINING COMPANY (LIMITED).

Incorporated under the Companies Acts, 1862 and 1867, limiting the liability of the shareholders to the amount of their shares.

Capital £20,000, in 2000 Shares of £10 each. (FIRST ISSUE OF 1500 SHARES).

nder as and when required, and at not shorter intervals than two months, and in not larger amounts than £2 per share.

PROVISIONAL DIRECTORS.

JOHN CHILD. Esq., B.A., 21, Houghton-place,
Bradford—CHAIRMAN.

JOHN LLOYD, Esq., Hesketh, near Holywell.

Capt. JOHN PRYOR, M.E., Pen-y-Ifordd, Mold.

(With power to add to their number.)

Managing director,
Mr. M. HESLOP, M.E., F.A.S.L., 15, Southbrook-terrace, Bradford.

BANKERS.
THE NATIONAL PROVINCIAL BANK OF ENGLAND, Mold.
THE EXCHANGE AND DISCOUNT BANK (LIMITED), Bradford.

Mr. ALEXANDER NEILL, Solicitor, Bradford.

AUDITORS.

H. W. and J. BLACKBURN, Commercial Bank Buildings, Bradford.

BECRETARY—(pro tem.)—Mr. J. LITTLEWOOD.

PROSPECTUS. The company is formed for the purpose of purchasing the interest of Mr. Matthew Ission, of Bryn Alyn, in the Bryn Alyn Lead Mine, and of carrying on and working the mine. The mine is situated in the parish of Lianarmon, Denbigshire, North Wiles, in the Mold mining district, so well known for its productive lead mines. It is a present, being worked by the proprietor, and he is confident that by the mployment of a larger capital the profits would be very great; so satisfied is he dist that he has agreed to take the greater part of his purchase money in shares the company.

company,
mine is bounded all round by well-known and productive mines, all of which
made very large returns on the capital employed. The Nant Mine, adjoining
min bounded to the capital employed and the Belgraye Mine.

has made very large returns on the capital employed. The Nant Mine, adjoining the south boundary, returned 500 tons of ore per month; and the Belgrave Mine, signing the north boundary, returned 200 tons of ore per month, and made their reasons immensity rich, when the lead ore only sold at about £9 per ton, the price say being about £15 and upwards.

The sett comprises a large area of acres, and has traversing through it three well-tons set to make the productive even in the small surface scratchings made thereon. It is held chiefly under the Duke of Westminster, at 20s. per ton royalty; and a large lunder Mr. Jones, at 1-10th per ton royalty.

Suffice are already sunk for working and ventilating the mine; two to a depth of his pards and 105 yards respectively, and others to a smaller depth; and several and of the parts and 105 yards respectively, and others to a smaller depth; and several are of the parts and 105 yards respectively, and others to a smaller depth; and several are of the parts and 105 yards respectively, and others to a smaller depth; and several are of the parts and 105 yards respectively, and others to a smaller depth; and several are of the parts and 105 yards respectively, and others to a smaller depth; and several are of the parts and 105 yards respectively.

Suffice of the proposed conductive of the other parts, and which, with the Amount and parts and

usy, ms of application for shares and other information may be obtained at the Bradford.

Samples of lead ore, and the plans of the mine, can be seen at the TEMPORARY OFFICES,—51, MARKET STREET, BRADFORD.

GENERAL MINING COMPANY FOR IRELAND (LIMITED).

GENERAL MINING COMPANY FOR IRELAND
(LIMITED). IN LIQUIDATION.

THE VALUABLE FREEHOLD AND LEASEHOLD MINERAL and OTHER INTERESTS, and the EXTENSIVE MINING and MANUFACTURING MACHINERY, PLANT, and BUILDINGS, of the GENERAL MINING COMPANY FOR IRELAND (LIMITED), situate at and in the neighbourhood of SILVERMINES, in the county of TIPPERARY, within five miles of the Nenagh Station of the Great Southern and Western Railway, and within eight of the Birdhill Station on the Killaloe Branch of the Waterford and Limerick Railway System, TO BE SOLD, BY AUCTION, at Silvermines, on Wednesday, the 2th day of September, 1878, and succeeding days, commencing each day at noon precisely.

The mineral setts extend over about 2000 acres, and include deposits of calamine (carbonate of zinc), silver-lead, blende, copper, sulphur, and fire clay, and are held partly in fee and partly under terminable leases; all free from dead rents, and some free from royalty, and others subject to moderate royalties, with exceptionally favourable conditions for working.

The manufacturing plant comprises everything necessary for the making of zinc oxide direct from the calamine ore, which manufacture was successfully carried on by the General Mining Company.

The mining buildings, plant, and machinery include every requisite for carrying on extensive operations, and they are now in good working order.

Detailed particulars of the lots, with lists of the buildings, plant, and machinery, and the conditions of sale can be had from the undersigued, who will be prepared to receive private offers up to within one week of the day of sale:—D. and T. Fitz-Greall, Solicitors for the Liquidators, 26, St. Andrew's-street, Dublin; L. Studders, St. Andrew's-street, Dublin; L. S

VALUABLE MINING PROPERTY IN THE ISLE OF MAN FOR SALE. IN RE THE VANNIN SILVER-LEAD MINING COMPANY (LIMITED).

IN VOLUNTARY LIQUIDATION.

IN VOLUNTARY LIQUIDATION.

WILL BE OFFERED FOR SALE, BY PUBLIC AUCTION, on Tuesday, 21st September instant, the Property known as—

THE VANNIN SILVER-LEAD MINE,

One of the most promising and bona fide Mining Speculations in the Isle of Man. The Sett is situate near Ramsey, in the direct track of the Great Laxey and Great North Laxey Lodes: the principal lode (which has been found productive at surface) is in the line of the Great Laxey Lode, having a similar bearing and dip. The company's interest in the unexpired term of the lease (about 16 yeard) will first be put up for sale, and the purchaser will have the option of taking the Plant and Materials at the Mine at a valuation. Should the purchaser desine taking the Plant, &c., as above stated, it will subsequently be put up for sale in lots.

Sale to commence at the office of the company. I Albert street Paracey, Island.

in lots.

Sale to commence at the office of the company, 1, Albert-street, Ramsey, Isle of Man, at the hour of One o'clock P.M., when conditions will be declared.

For further particulars, apply to the Liquidator, Mr. FREDERICK SAUNDERSON, 1, Albert-street, Ramsey; or to—

C. B. NELSON, Advocate, Ramsey.

Ramsey, Sept. 1, 1875.

HENDON SPELTER WORKS COMPANY. TO CAPITALISTS, PROMOTERS OF PUBLIC COMPANIES, & OTHERS.

TO CAPITALISTS, PROMOTERS OF PUBLIC COMPANIES, & OTHERS.

POR SALE, in consequence of the Death of the late Senior
Partner, the SPELIER WORKS, situate at Hendon, in the borough of
Sunderland, in the county of Durham, now being carried on under the style of
"THE HENDON SPELIER COMPANY."
The works are situated within one mile of the well-known docks of the port of
Sunderland, and adjoining the Hartlepool Branch of the North Eastern Railway,
with which they are connected by high and low level sidings, and thereby placed
in communication with all parts of the United Kingdom. Their position, within
easy distance of both the ports of Newcastle and Sunderland, is very advantageous
for the cheap importation of raw material, as also the forwarding of the manufactured article either by land or see
The ground on which the works are built could be either bought out or sold on
a yearly perpetual ground rent, and any quantity under 20 acres could be included
in the sale.

Being situated in the midst of the Durham Coal Field fuel of the best descrip-

a yearly perpetual ground rent, and any quantity under 20 acres could be included in the sale.

Being situated in the midst of the Durham Coal Field fuel of the best description can be obtained at a cost below almost any other part of the United Kingdom. There are 19 workmen's cottages, which could be sold with the works. The works contain 24 zinc furnaces, capable of producing 70 tons of metal a week, as also calciners, potlofts, machinery, blacksmiths' and joiners' shops, &c., of sufficient capacity for a much larger number. The works could, therefore, be doubled at a comparatively small cost.

The quality of the metal made at these works is well known, and it, therefore, commands a ready sale at the highest prices.

Attached to the high level sidings are large depôts for coal, ore, &c.

The goodwill would, of course, go with the works, and they will be sold subject to all stock being taken at a fair market value.

The purchaser can also have the option of buying the CALCINING WORKS and VALUABLE MINES in SPAIN, thus allowing of the economical and regular aupply of the raw material, and saving the mineowners' and merchants' profits. As the ore from the South of Spain generally comes as ballast for ships laden with esparto, it has been brought for this company at an average cost of 7s. per ton, sometimes as low as 4s. 6d.

Further partioulars can be had on application to the company. Further particulars can be had on application to the company.

IN VOLUNTARY LIQUIDATION UNDER THE COMPANIES ACT, 1862.
THE NEW LLANGYNOG LEAD MINING COMPANY (LIMITED).

(LIMITED).

TO BE SOLD, BY PRIVATE TREATY, ALL the BENEFICIAL INTEREST of the New Liangynog Lead Mining Company (Limited) in the LLANGYNOG LEAD MINES, comprising all the valuable, productive, and extensive mines, veins, beds of lead, oree of lead, and other metals and minerals known collectively as the Liangynog Lead Mines, and in the reservoir, water-supply rights, easements, and interests thereto belonging, situate in the several parishes of Liangynog, Lianthaiadryn Mochnant, Hiranat, and Pennant, in the county of Montgomery; and also the WHOLE of the movable PLANT and MACHINERY of the said company.

The Liangynog Lead Mines have been a highly productive and dividend-paying property.

The Liangynog Lead Mines have been a nightly productive and dividend-paying property.

The mines, machinery, and plant are in working order, and considerable quantities of ore are now being raised.

The works may be inspected at any time upon application to the Manager at the Mines. The leases and agreements may be inspected at the offices of Messrs. Longueville, Jones, and Williams.

All further information may be obtained, and maps of the property inspected, on application to Messrs. Geo. Haswell and Sons, 84, Foregate-street, Chester; to Henry Dennis, Esq., Mining Engineer, Hafod-y-Buch, Ruabon; or to Messrs. Longueville, Jones, and Williams, Solicitors, Oswestry.

TO CAPITALISTS OR PROMOTERS DESIRING TO

TO CAPITALISTS OR PROMOTERS DESIRING TO MAKE MONEY.

TO BE SOLD, a COLLIERY ROYALTY in NORTH WALES, close to rail or shipping port; several shafts partially sunk; coal fully proved of FOUR SEAMS of good HOUSE and STEAM COALS, in an area of upwards of 400 acres of surface. It adjoins the West Mostyn Coal Field, just successfully launched, where under seams (including Cannel) have been proved in addition to the above; so that eminent engineers state that the available coal in this royalty may be 88 feet thick.

Present holder will arrange to sell the entire to an individual or company for what it has cost him, dividing all profit made above, which, even in a normal state of the coal trade, must be large. Certain and safe surveys by eminent Staffordshire and Welsh engineers have already been made.

Address, "Nil Desperandum," care of Mr. Watson, 15, Fenwick-street, Liverpool.

Address, "Nil Desperandum," care of Mr. Watson, 15, Fenwick street, Liverpoel.

TO BE SOLD, a PAIR of HORIZONTAL ENGINES, coupled for pumping on second motion; left hand cylinder, 22 in. diameter, 3 ft. 11 in. stroke; right hand cylinder, 25 in. diameter, 8 ft. 11 in. stroke; right hand cylinder, 25 in. diameter, 8 ft. 11 in. stroke; lift wheel shaft, with fly wheel; one pair of plaion wheels, with pedestals and brasses on strong cast iron bed plate, with foundation bolts; fly wheel shaft, 14 ft. 6 in long, 11 in. diameter, wrought iron; fly wheel, 12 ft. 2 in. diameter, weight about 3 tons; pinion wheels, 4 ft. 6 in. diameter; box wheels, with 3 in. soles; one double crank, with pair of driving wheels, pedestals, and brasses; shaft, 13 ft. 6 in. long, 15 in. diameter; stroke of pumps, 4 ft. The shaft is wrought iron, put together in two halves, with strong bolts and keys; weight about 4½ tons; driving wheels, 11 ft. 2 in. diameter; box wheels, with 13 in. soles; one pair Liegs, with ballast sit; wrought iron strap girdles, on strong cast iron bed plate, in two halves, with pedestals and brasses; one pair parallel rods, red wood, 24 ft. long, 12 in. by 10 in., with all connections; bed plate for the engines, 29 ft. 6 in. long, boxed 10 in. by 9 in., 3 ft. 8 in. wide; foundation bolts, 11 ft. long, 1½ in. diameter; bed plate for the engines, 29 ft. 6 in. long, boxed 10 in. by 9 in., 3 ft. 8 in. wide; foundation bolts, 11 ft. long, 1½ in. diameter; bed plate for the engines, 29 ft. 6 in. long, boxed 10 in. by 9 in., 3 ft. 8 in. wide; foundation botts, 11 ft. long, 1½ in. diameter; bed plate for the engines, 29 ft. 6 in. long, boxed 10 in. by 9 in., 3 ft. 8 in. wide; foundation botts, 11 ft. long, 1½ in. diameter; bed plate for the engines, 29 ft. 6 in. long, boxed 10 in. by 9 in., 3 ft. 8 in. wide; foundation botts, 11 ft. long, 1½ in. diameter; bed plate for the engines, 29 ft. 6 in. long, boxed 10 in. by 9 in., 3 ft. 8 in. wide; foundation botts, 9 ft. long, 1½ in. diameter, boxed leafer, and 2½ in. thick; pede

POR SALE, a SCHIELE'S FAN, driven by a pair of steamengines, each cylinder 12 inches diameter, and 12 inches stroke, spur gearing
to 1; the pinions have wooden teeth. One engine will drive the Fan. This is
now ventilating a colliery, and will exhaust 30,000 cubic feet of air a minute, with
a water gauge of 1½ in. The fan and engines are as good as new, and the entire
cost of masonry, brickwork, and erection need not exceed £100. Delivered on
trucks at Bettisheld Colliery complete for £450. Ashlar blocks for fan and enginebed cut to fit lasded on trucks for 1s. a cubic foot.

Apply to the Bettisfield Colliers Company (Limited), Bagillt.

THE LESSEE'S INTEREST in certain VALUABLE CHINA CLAY AND TIN, COPPER, AND IRON ORES EDISPOSED OF. Il particulars can be obtained on application to Mr. S. N. Scott, China Cla7 hant, St. Austell.

REDUCTION OF PRICES

PORTABLE ENGINES.

PORTABLE ENGINES.

7 h.p., with 9 in. cylinder.
8 h.p., with 9\% in. cylinder.
10 h.p., with 10\% in. cylinder.
14 h.p., with 2 \% in. cylinder.
20 h.p., with 2 \% in. cylinders.
14 h.p., with 2 \% in. cylinders.
15 h.p., with 2 \% in. cylinders.
20 h.p., with 2 \% in. cylinders.
20 h.p., with 2 \% in. cylinders.
YERTICAL ENGINES, COMBINED WITH BOLLERS:—2 h.p., \$ h.p.,

LEWIN, POOLE WORKS, DORSET.

COPPER MINE FOR SALE.

FOR SALE, a COPPER MINE, in FULL WORKING ORDER, in one of the best districts in CORNWALL. Regular and profitable returns are made. Water charges easy. Proprietors are prepared to treat for the entirety or a part of the property.

Apply, in the first instance, to "A. B.," Post Office, Redruth, Cornwall.

FOR SALE, a LARGE ROYALTY of MAGNETIC IRON ORE, yielding about 53 per cent. metallic iron, free from phosphorus. Situated close to a good Norwegian Harbour, with accommodation for loading the largest vessels. Charcoal is obtainable at the same place.

Apply to M. A. NISSEN and Co., Christiania.

TO BE SOLD, BY PRIVATE TREATY, the MINING PLANT and MACHINERY at the CHAMPION MINES, CREETOWN, SCOTLAND, consisting of PUMPING and PORTABLE ENGINES, WATER-WHEELS, PUMPS, MINE STORES, &c.

The plant can be seen on applying to Mr. JAMES McQUEEN, on the Mine.

Tenders will be received by Mr. WALTER GATH, Accountant, 7, Old Post Office-court, Carlisle.

CAST IRON PIPES.

TO BE DISPOSED OF, No. 18 9 ft. lengths of 9 in. "FACED" FLANGE PIPES (with body flanges), and 50 7 in. ditto, also faced and grooved, including 17 with body flange, ALL NEW.

For further particulars address, "J. O.," MINING JOURNAL Office, 26, Fleetstreet, London, E.C.

FOR SALE:—
A 50 in. cylinder PUMPING ENGINE.
A 40 in. cylinder PUMPING ENGINE, with 10 ton BOILER.
A 22 in. cylinder WINDING ENGINE, with 10 ton BOILER.
A COMPOUND ENGINE, with 6½ in. and 11½ in. cylinders.
For particulars and price, apply to—

WILLIAM MATHEWS, ENGINEER, TAVISTOCK. CONDENSING AND NON-CONDENSING HORIZONTAL STEAM ENGINES, of the highest class, at low prices.
PUMPING AND WINDING ENGINES. First-class references.
ENGINEERS'S TOOLS of all kinds, unrivalled for arrangement and general usefulness, at low prices. Inspection invited.

POLLOCK AND MACNAB,

ENGINEERS HONDERS HADE MACKINETER.

BRITANNIA IRONWORKS, HYDE, NEAR MANCHESTER. PORTABLE STEAM ENGINE FOR SALE, with two 134 in. cylinders; also ONE with two 114 in. cylinders, both with link motion reversing gear, and with or without gearing to wind and pump.
FOR SALE, a GOOD SECOND-HAND 6-horse power PORTABLE ENGINE, with a new 6 ft. pan mortar mill. Price of both, £145.

To be seen at— BARROWS AND STEWART'S WORKS, BANBURY.

STEPHEN WILLIAMS, CAMBORNE.

LYTTLE'S METALLURGICAL PATENTS.

CAST STEEL, MALLEABLE IRON, CHARCOAL PIG.

The finest cast steel direct from iron ore, without any intervening production f pig-iron, at a cost much less than the cheapest bar-iron.
 Malleable iron similarly direct from ore, without smelting, at a very great

of pig-iron, at a cost much less than the cheapest bar-iron.

2.—Malleable iron similarly direct from ore, without smelting, at a very great saving.

3. The purest charcoal pig, superior to Swedish pig, made from any common ore, without exception however impure, by means of the dust of brittle uncondensed peat charcoal, such charcoal being produced from air dried peat sods charred in log overed heaps on the bogs. No plant of any kind is needed for making this, now useless, charcoal except spades, and the utilisation of peat without risk, as well as the reclamation of peat lands at a profit, is at last a solved problem. For all these metal processes the "Duff," or dust of bitaminous coal, costing 3s. a ton, will answer instead of charcoal, but with a less pure product. The supply of peat charcoal on such easy conditions is practically unlimited. Dartmoor, close to inexhaustible iron ore in Devonshire and Cornwall, is offered to patentee by the square mile of finest peat at especially low prices for these processes. Thousands of acres of peat are available at once in the Eastern Counties, and wast tracts are sattered throughout the North, with many millions of acres in Ireland. Each acre yields on an average 1000 tons of charcoal.

As the ore, like the fuel, must be in a crushed or powdered state, enormous deposits of rich harmatile, in a gritty clay-like state, which is now useless, become at once available under this monopoly at immense profit. Patentee has received offers to supply annually several millions of tons of this sort of ore at one-fourth its value under the new process, from Beiglum and Ulster.

Coal dust can be carried by ship to the deep harbours of Antrim from the opposite Sootch ports at as low a cost as most English ironmasters have to pay by rail, and as 1 ton of fuel, even under the present old process, will on an average smelt 2½ tons of ore, it is clearly cheaper to carry the fuel to the ore than the reverse.

Cheap Beiglan and Spanish ores, however, with coal dust by ship, and crude peat c

iron and steel works at Barking in the best possible position under Lyttle's new system.

The patentae will not sell, or part in any way, with the sole control of his British patents, but he will be happy to let licenses on royalties, or to assist in forming companies as licensees, without any cash premium or purchase. The first company or ironmaster who may wosk any of these processes in Ulster, Cornwall, or on the Thames, shall be allowed a license to produce 1000 tons of metal per week at a much lower royalty than that payable at any time by any other ordinary licensee in the United Kingdom.

The inhabitants of Autrim are all Anglo Scottish, who would welcome gladly the hosts of Anglo-Scottish workmen whom the new industry must import to complete the "plantation" of Ireland with useful and loyal fellow-subjects. Capital is as safe in Ulster as in Cleveland.

The patentee will furnish a first class manager to introduce and supervise his processes under his own instructions.

All enquiries or applications shall receive prompt attention if addressed direct to the patentee,—

WM. A. LYTTLE, C.E., F.C.S.,
THE GROVE, HAMMERSMITH, LONDON, W.

THE ROCK-BORING CONTRACT COMPANY. DARLINGTON'S PATENT ROCK-BORING MACHINERY.

OFFICES,-2, COLEMAN STREET BUILDINGS, MOORGATE STREET, LONDON.

FOR TUNNELLING, DRIVING LEVELS, CROSS-CUTS, AND SINKING SHAFTS.

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ESTABLISHED 1847.

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MANUFACTURERS of RAILWAY CARRIAGES and WAGONS, and EVERY

DESCRIPTION of IRONWORK.

Passenger carriages and wagons built, either for cash or for payment,

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RAILWAY WAGONS FOR HIRE.

CHIEF OFFICES,—OLDBURY WORKS, NEAR BIRMINGHAM.
-LONDON OFFICES,—7, GREAT WINCHESTER STREET BUILDINGS.

THE BIRMINGHAM WAGON COMPANY (LIMITED)
MANUFACTURE RAILWAY WAGONS of EVERY DESCRIPTION, for
HIRE and SALE, oy immediate or deferred payments. They have also wagons
for lire capable of carrying 6, 8, and 10 tons, part of which are constructed spec
ally for shipping purposes. Wagons in working order maintained by contract.

EDMUND FOWLER, Sec.

WAGON WORKS,—SMETHWICK, BIRMINGHAM.

a Loans received on Debenture: particulars on application.

SPECIAL NOTICE TO MINE SHAREHOLDERS,

THE "BRITISH LION" IS LOOSE.

Already the sale of this satirical Britisher is immense The third edition is now ready. This paper contains special and important News for all classes of Investors. Price Twopence; by post, three stamps.
Publishing Office, 8, Piccadilly, London.

SCHEERER AND BLANFORD ON THE BLOWPIPE. New and Revised Edition, price 4s.,

AN INTRODUCTION TO THE USE OF THE BLOWPIPE, from the German of Dr. Th. Scheerer; to which is added a Description of the Blowpipe Characters of the more important Minerals.

By H. F. BLANFORD, F.G.S. "A cheap and concise handbook, valuable allike to the chemist, the mineralogist, the smelter, and the miner."—Practical Magazine.

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Published monthly. 5s. per annum.

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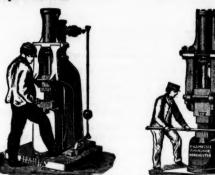
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THOMAS SPARGO, 62, Comhill, E.C.—Established Twenty-six Years.

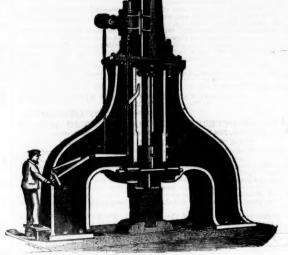
& S. MASSEY, OPENSHAW, MANCHES

PRIZE MEDALS Awarded:-Paris, 1867 Havre, 1868 Highland Society, 1870; Liverpool, 1871; Moscow, 1872; Vienna, 1873; Scientific Industry Society, 1878,

Farentees and Makers of Double and Single-acting S TEAM HAMMER S of all sizes, from 1 cwt. to 20 tons, with self-acting or hand motions, in either case giving a percettly DEAD BLOW, while the former may be worked by hand when desired. Large Hammers, with Improved Framing, in Cast or Wrought Iron. Small Hammers, working up to 500 blows per minute, in some cases coing worked by the Foot of the Smith, and not requiring any separate Driver. any separate Driver.



Small Hammer with Foot Motion



From 60 to 100 Steam Hammers and Steam Stamps may usually be seen in construction at the Works.





SPECIAL STEAM STAMPS, of great importance for

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CASARTELLI'S

CELEBRATED TRANSIT CIRCUMFERENTOR.

Or MINERS' DIAL; the best in use.

DICKINSON'S ANEMOMETER;

A simple portable instrument. Requires no timing. CHAINS, TAPES, SCALES, PROTRACTORS DRAWING INSTRUMENTS, STRAM GAUGES, &c., all of first-rate quality Catalogues on application.

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2000	O Australian, c, South Australiat	- 1		0		3/4	. 3/	8 3/4	***	0	5	3	0	1	0Mar.	107
1000	O Battle Mountain, * c, (6240 part pd.)	- 7	7	6	***	234	. 13	23/	***	0	15	8	ň	0	0July	107
1500	Birdseve Crock - C. (6240 part pd.)	ě	0	0	100	3		3 3	***	0	10	0	0	10	oJuly	1811
600	Birdseye Creek, g, California*	4	0	0	***	13/4	13	134		0	14	0.,,	0	10	0Nov.	1872
3 - 5154	Bensberg, I, Germany*	10	0	0		31/2	8	31/2	***	0	10	4	0	2	6June	187
20000	Burra Burra, c, So. Australia	5	0	0	***			-/2		80	11		0	8	0July	1873
2000	Cape Copper Mining, *† 80. Africa.	7		0	***	35		35		00	0	0	0 1	10	0Oct.	187:
00000	Cedar Creek, g, California*	5		0	***	3/6			***		19	0	1	0	0June	1878
acocc	Central American Association*†	0						3%		0	0	0	0	2	6June	1875
1000	Chicago, s, Utah*	10		0	***					0	0	0	0	1	0July	1866
21000	Colorado Terrible, s-l, Colorado*1	5			***	- 01/			100		12	0	0	4	O May	1808
100000	Den Pedro North del Rey*†					23/4			***	0	13	6	0	4	0Jan.	1875
2 1600	Eberhardt and Aurora, s, Nevada*†	0			***	3/4	28	38		2	5	9	0	2	0Mar.	1875
50000	Emma, g, s, Utah	10			***	81/8	85	6 9	***	1	0	0	1	0	0July	1871
10000	English and Australian, cf B. Aust.	20			**	11/2			***	3	12	0	0	8	0Dec.	1071
15000	Ferguson - Calle	2	10	0		17/8 .	15%	1 7/8	***	2	10	9	0	2	6Mar.	1072
80000	Ferguson, g, California*	2	0	0						0						
95000	Flagstaff, s, Utah*	10	0		***	136	11/4	134		0	0	0		3 (0April	1872
80.000	Fortuna, l, Spain*†	2	0		***	5%				9	2	0		5 1	0July	1873
80000	Gold Run, hyd.	ī	0				-74	074			14	4	U	7	6 Mar.	1875
00000	Kapunda Mining Co. Australiat	î	3		**	3/4	1/	31	***	0	2	4	0	0 4	4Oct.	1872
20000	Last Chance, s,* Utah		0				1/8	74		0	2	4	U	0 6	6June	1878
19000	Linares, i, Spain*†	3				11/4	1		***	0	14	0	U	2	0July	1878
65000	London and California, g*1	0	0		***		4			14	19	2	0	5	0 Mar.	1875
7837	Lusitanian, Portugai* (£b shares).	2	0			\$8	38			0	1	0	0	1 /	0 . July	1975
15000	Manimoth Copperopolis of Utah, e, s	3	10		**	1	3/	1	***	1	11	6		1 6	6Mar.	1070
8000	Mountain Chief, s, Utah*		0									0		5 (0Dec.	1070
18000	Proseion Mining & T	10	0	0					***			D		4 (
10000	Prussian Mining & Ironworks, cl, i.	80	0	0	***											1873
100000	Pontgibaud, s-l, France;	20	0		***	19	17	19	***	6	0 1	D	3 (0 0	July	1873
£4000	Port Phillip, g, Clunes*	1	0			7/8			***	10	11 (0	0 1	11	0 June	1875
100000	Richmond Consols, s, Nevada*1	5	0		***						0 1	Jeer 1)]	10	Jan.	1879
120000	Scottish Australian Mining Co.*t.	i	0		***	93/4				2 1	4 1) () 1	7 6	May	1978
112500	Sierra Buttes, g, California*†	2			***	13/8	178	138	***	12%	pe	er ce	nt.		May	1875
			0		***	11/2	1 1/4	134		1 1	4 (0) :	2 6	July	1975
£25800	0 St. John del Rey*† (£5 stock and n Sweetland Creek, g. California**	0	U	U		. 12	1/4	1/2	***	0 1	4 5	2 6) 5	3 6	Nov.	1070
18000	Bweetland Creek, g, California*†	nult	iple		deal	in)	400	410	2	D. 0	t. f	or L	20		June	1075
20000	Tolinia a sa (8000 -1		0 1	U		3/8	3 :	356		3	2	1	2	9 /	Bept.	TOID
15000	Western Andes, s* (New Granada).		10		***	334	3 5	34	***	0 1	11	R	1	8 6	Bept.	1875
	(Mew Granada).	5	0 1	0	***	534	5 2	126		1 1	0			3 0	May	1874

hares	Mines. NON-DIVIDEND FOREIGI	NA	IIN						
3(n ()()	Angle-Australian a Vistanta	Pa	nd.	L	ast Pr.	Cu	a. P	r. Last	Call
Seen	Bellavista, s, Peru* (£10 shares) Blue Tent, hyd., California	2	10 0	***				. Sept	1075
20000	Blue Tent had California	10	0 0	***				Fall	1913
DODGO	Braganza o Ban-il#4	9	0 0	999	336	41	6 5	Full	y pa.
12000	Camp Floyd . Trans.	0 1	10 0				3 0	Full	
20000	Cesena Sulphus Communication	10	0 0	***				Oct.	
90192	Chantales a . William Committee the committee of the comm	10	0 0	***				Full	y pd.
6000	Chontales, g, s, Nicaragua*† (and 12,542 of £1 15s.)	3	0 0	***	3/8	1/	56	Full	y pd.
10000	Crescent a Plumas C	D	0 0	***	- 78		78	Full	pd.
00000	Clifton, s, Colorado* Crescent, g, Plumas County, California* Cuiaba, g, Minas Geraes, Brazil* Douglas, s, George County, California*	10	0 0	***				Feb.	1872
10000	Donales - C	0 1	7 6	***				Fully	pd.
N5000	Douglas, s, Georgetown, Col. Excelsior Hydraulic Gold Washing Co. College		0 0	***	040			June	1872
60000	Excelsior Hydraulic Gold Washing Co., California* Exchequer, g, s, California*	6	0 0					Fully	v pd.
88000	Exchequer, g, s, California* Frontino and Bolivia, g, New Granada**	1	0 0	***	-			Dec.	1871
80000	Frontino and Bolivia, g. New Granada*†	ė	0 0	***	-			Fully	pd.
10000	General Brazilian, g* Goetzel Tunnel Co., Georgetown, Col	ĩ	0 0	***	11/		1	Fully	pd.
4.0000	Goetzel Tunnel Co., Georgetown, Col.	7	0 0					Fully	pd.
6000	Holcombe Valley, g, * California Hornachos, * s.t., (£10 shares) Spain	1	0 0					Fully	pd.
0000	Hornachos, * s.l, (£10 shares) Spain	10	0 0	***				July	1878
20000	Imperial Brazilian Collieries, Brazil* (Independence, g, California*	8		***				Jan.	
90000	Independence, g, California* L. X. L., g, s, California*	8	0 0	***	-			Fully	pd.
Sonne	. X. L., g, s, California* Javali, g, Nicaragua*	8	0 0	***	234	234	234	Fully	pd.
12000	Javali, 9, Nicaragua* Lanestosa,* i, z, Viscaya, Spain (£2 shares)	9	0 0	***	-			Fully	pd.
2000	Lanestosa,* l, z, Viscaya, Spain (£2 shares) Malabar, g, Colombia* (£5000)		0 0		34	56	34	Fully	pd.
75000	Malabar a Colombia a constant	1 1	2 0	***			-	Bept.	1874
4000	Malabar, g, Colombia* (65000 issued)	1 (0 0	***	56	34	84		
LUUUUU ,	dalpaso, a. Colombias dans	10 1	0 0	***	- 75	12	78	Fully	pd.
2000	denzenhere e H Prot. shares, tuny paid)	1 (0 0	***	36	34	84	Fully	pa.
				***	- "	73	78	Fully	pa
19000	New Pacific, g, s, Nevada* New Quebrada, c, Venezuela* New Quebrada, c, Venezuela*	8 (0 (401				Fully	pa.
			0 6	***	36	1/8	2/	Fully	pa.
00000	ew Rosario, s. Mexico*	8 6	0	***	4	33/4	4	Dec.	1874
MO000	TOW ACREAGE - C	1 1	, 0	***	36	3/8	1/	Fully	pd.
10000	· I dland * /	B (0	***	11/	3/4	11/	Fully	pd.
			0 (***		74	174	Fully	pd.
00000			0	***				Fully	pd.
00000			0	***	11/	34	12/	Fully	pd.
			0	***		74	- 74	Fully	pa.
			0	***	34	3/6	3.6	Fully	pd.
			0	***	73/	7	78	Fully	pd.
			0		- 74			Fully	pd.
	County of Orenouse and Transa	0 0	0					July	15/2.
25000	Russin, c, Orenburg and Uta*† an Pedro, c, Chili* anta Barbara, *g, Brazi	0 0	0	***	234	91/	23/	Fully	pd.
10000	anta Barbara & a Barbara	9 0	0					Fully	
10000	liver t'ume a Colombia	0 0	6	***	13/			Fully	pd.
7500	an Fedro, c, Chilis anta Barbara, sp. Brazil iver Fume, s, Colorado* inowdrit, s, Colorado* it. Lawrence, sp. California.	1 0	0		36	36	76	Mar.	1872
0000	St. Lawrence, 9, California. Recenta, 4, Utah	9 0	0	000	- 111			Fully	pd.
30000	recoma, s. Utah*	5 0	0	.0.	***			Fully	pd.
00000	st. Lawrence, g., California. Procursa, g., Utab* Phornhill Reef, g., Ameralia* Disted Mexican, s., Mexico*1; Luit, g. s.j, Utab* Static (Londom)*	0	6	140				Fully	pa.
18174	Dited Mexican . Marralla"	0	0	-0-	34	36 3	1/4	Fully	pd.
14000	tall, o. 4-1. Clabe	10	0 .	- 100	3 X	1/6 1	16	Fully	pu.
98000	h toria (London)	1 12	8	* 5	3	214	3	May	1575
		0	0	- 0	X	1/8	K .	. Fully	pd.
4001-	Socks Programmia a Court Australia	. 0		100				Fully	pd.
	Anatralia Preference				. 36	36 1	Mi.	PRILLS	pd.
	. Have made calls since heat divides	. 0	υ.	-do	1 410	34	1 .	Fully	pd.

	The social in the second	J.
г.	Shares. NON-DIVIDEND MI	
	James. 25000 Aberdaunant, i, Llanidloes* 10000 Aberystwith,* i-i, Cardigan 12000 Assheton, i, Carnarvoshire* 60000 Ballycummisk,* c, Schull 12000 Bedford Consols, c, Tavistock 12000 Bedston,* c, Devon (3000 sh. 10s. pd.)	Paid. Last Pr. Clos. Pr. 1 0 0 13414 134 5 0 0 5 0 0 134 1 114
are. Last paid 0Jan. 1875 0June 1873	12000 Ballycummisk,* c, Schull	2 0 0 1 8 0 1 17 6 1/3 1/4 1/6
0" Ang 1920	12000 Bettord United, c, Tavistock 15000 Belstone, *c, Devon (3000 sh. 10s. pd.) 15000 Blue Hills, t, c, 8t. Agnes 25000 Bog. t, Shropshire* 2000 Bowden Hill; *ms 20000 Brynambor, t, Cardigan 30000 Burrowk Butann *t, c, M St. Agnes 2000 Brynambor, t, Cardigan 20000 Brynambor, t, Cardigan 2	1 0 0 4 % 2 6 6 2 0 0 34 34 34
6Jan. 1872 0July 1875 6Oct. 1872	2000 Bowden Hill,* mn 20000 Brynambor, l, Cardigan	2 0 0 34 36 1/2 1 0 0 34 1 0 0
6Aug. 1873 0Feb. 1874 6June 1873	30000 Burrow & Butson, * t. c., tl., St. Agnes 20000 Burra Burra, * t.c., tl., Kenwyn 4828 Bwadrain, *-t., Cardigan *(£4 shares). 4835 Bwich Consols, *-t., Cardigan *(£4 shares).	1 0 0 — 1 0 0 — 3 19 0 —
6Jan. 1878	4235 Bwich Consols, s-l, Cardigan*[(£5 sh.) 12000 Cae Gynon, , Cardiganshire*† 30000 Caldbeck Fells, l, Cumberland*	4 19 6 — 2 0 0 —
0July 1874 5Feb. 1874	12000 Cae Gynon, Cardiganshire*	5 3 6 X 16 16
0Oct. 1872 0July 1875 6July 1875	10000 Castle Gate, t, St. Colomb*	1 10 0 1 10 0 1½1½ 1½ 5 0 0
6Oct. 1874 0Sept. 1872 0Sept. 1875	20000 Central Foxdale, l, Isle of Man*(£2 sh.) 10000 Central Van,* l, bl, Llanidloes 24000 Court Grange st, Cardiganshire	1 0 0 — 5 0 0 —
0July 1875 0Aug. 1874 5Jure 1872	15000 Cwm Bychan, * s.l, Montgomery 15000 Cwm Nant Ddu, * l, Montgomery	1 0 0
0Oct. 1874 0Aug. 1875 8June 1875	256 Cwmystwith, l, Cardiganshire! 60 15000 Deer Park, t,c, Tavistock	2 11 0 0 0 0 2 0 0
Oct. 1872	656 Ding Dong, t, Gulval	3 0 0 3 2½ 3 14 6 6 5 6
Dec. 1872 Mar. 1878 Aug. 1875	10000 Dubby Syke, l, Durham*	5 0 3/ 1
Jan. 1874 Jan. 1875 May 1875	512 East Basset, c, Redrutht 76 800 East Black Craig, * l., Scotland	15 0 4 3 4
July 1872 3Apr. 1875 Sept. 1873	6000 East Boscaswell, t, St. Just	0 0 0 0 5 0 136134 136
Feb. 1874 July 1874 Nov. 1871	6000 East Bottle Hill Cons., t. c. Plympton 4000 East Chiverton, l., Perranzabuloe	0 0 ¼ ¼
July 1875 Nov. 1874	80000 E. Nant-y-mwyn,* l, Brecknockshire. 1 15000 East Van, l, Llanidloes*	13 0 0 0 0 0 11/4 11/4
Mov. 1872 Mar. 1872 July 1875	5000 Elgar,* s-l, Cardiganshire	0 0 0 0 10 0
Sept. 1875 Sept. 1872 Sept. 1874 Sept. 1875	0000 Franco Consols, t, c*	16 0 56 16 56
Feb. 1872 Sept. 1875	12800 Florence and Tonkin United* 0	0 0
July 1872 July 1875	5000 Gem, t, Whitchurch	10 0 0 0
Apr. 1875 1 Nov. 1871 1	2000 Goginan, and Level Newydd, Card., 1 2	5 0
Aug. 1875 Aug. 1875 Mar. 1874	7500 Gorsedd and Merllyn Consols, l, Flint 20000 Gt. East Foxdale, l, I. of Man* (£1 sh.)	0 0 ¼ ¼ ¼ 10 0 –
Nov. 1872 July 1875 Aug. 1875	4000 Great Caradon, c, l, St. Ive	0 0 =
Aug. 1875 Oct. 1872	4096 Great Wh. Lovell, t, Wendron 3 8000 Grosvenor, l, Holywell (£1 sh.) 0	7 0
July 1875 Dec. 1874	200 Islay, l, Scotland* 10 8000 Keswick United, l* 5 9000 Killifreth, l, Chacewater 1 5000 Kingston Consols, s-l, Cornwall 1	0 0 0 0 2 0
May 1872 2 Aug. 1872 1 Dec. 1874 1	5000 Kingston Consols, s-l, Cornwall 1 2000 Ladywell,* l, Salop	0.0 13/ 11/ 11/
Nov. 1874 May 1872	2500 Levant, c, t, St. Just	1 6 — 0 0 — 0 0 55
Mar. 1875 14 Aug. 1875 1		0 0 3½ 3 3½ 0 0 1½1½ 1½
Mar 1828 13	2000 Llanrwst, I, Carnaryon	0 0 214214 214
Mar. 1875 6 July 1875 6 Nov. 1872 8	5000 Marke Valley, c, Caradon* 5 0000 Medlyn Moor, t, Wendron 0 1	0 6 3¼ 2¾ 3 2 10. —
June 1874 13 July 1878 2 Oct. 1872 4	000 Monydd Gorddu, l, Cardigan ^a 5 524 Nangiles, t, c, Kea 9 1	0 0 6½ 6½ 6½ 4 0 ½ ½ ½
June 1875 June 1873	000 Nanty Moch, s l, Llanbadarnfawr 1 000 Nanty Moch, s l, Llanbadarnfawr 5	0 0 1 1
July 1864 25 May 1875 10 Jan. 1875 20 Mar. 1872 8	000 Nant-y-Ronen, s-l, Cardigan*	0 0
Mar. 1872 8 July 1871 8 Dec. 1872 16	1000 New Crickheath,* l, Shropshire 2 1000 New Doleoath, t, c, Camborne* 3	0 0 136 11/8 13/8 0 0 21/8 2 21/8 0 0 11/6 1 11/6
Mar. 1875 4 April 1872 2 July 1873 150	000 New Hendra, t, Breage 0 1	0 0 2 1½ 2
Mar. 1875 66 Oct. 1872 56	be a second of the second second second of the second of t	6 3/8 3/4 1
June 1878 33 July 1878 56 Mar. 1875 46	200 New South Merliyn, I, Flint* 2 10 000 New St. Blazey, * t, Cornwall 0 17	7 6
July 1875 13 Mar. 1878 2	0 1'000 New Wh. Grylls, t, Perranuthnoe 0 1600 New Wh. Seton, c, Camborne 36 1612 North Busy, c, Chacewater 3	3 8 — 3 8 — 3 6 8 71/2 8
Dec. 1872 250 Jan. 1873 200 July 1873 20	North Frince Patrick," 1, Holywell 1 (0 ½ 56 % 10 1½ 1 1½
June 1875 100 Jan. 1872 10	of the state of th	0 34 36 34
July 1875 20	00 Old Batholes, , Balop 1 10	0 1½ 1 1½ 1 4
Nov. 1878 60 June 1875 25 Sept. 1875 169	00 Old Tincroft, c, t, Lelant*	0 41/ 4 41/
May 1874 40 April 1875 20	00 Pate cy Bridge, l, Yorkshire	0 716616 716
ast Call. 120	00 Perkins Beach, l, Salop* 1 0 00 Plynlimmon, l, Llanidloes* 2 5	0 1¼1½ 1¾ 0 ¼ ½ ¼ 0 ⅓ ¼ ⅓
ully pd. 128	00 Prince of Wales, c. Calstock 7	0
oct. 1870 600 fully pd. 1500 fully pd. 580	00 Rookhope Valley, l, Durham*	0 36 3/8 3/4
eb. 1872 30	00 Russell, s.l, Swymbridge 0 6	0 10
ully pd. 420 une 1872 1200 ully pd. 600	5 0 South Bwadrain, s l, Llanbadarnfawr 0 10	0 5 1
ec. 1871 50 ully pd. 500 ully pd. 1200	12 South Dolcoath, c, t, Redruth 12 5 00 South Great Work, t, St. Hilary 2 14	0 11/2 10
ully pd. 1200 ully pd. 1200 ully pd. 70	0 South Lisburne, l, bl, Cardigan* 0 12 0 South Margaret, t, Ludgvan 1 10	0 6 0
uly 1873 1200 an. 1874 1800 ully pd. 600	0 South Roman Gravels, l, Salop* 1 10 0 South Roskear, t, c, Camborne 6 10	0 34 36 1 0 1
ully pd. 1900 ully pd. 1900 ully pd. 300	0 South Tolcarne, t, c, Camborne 1 6 0 South Van,* l, Montgomeryshire 1 0	0 38 36
ept. 1874 93 ully pd. 600	7 South Wheal Crofty, c, Illogan 35 10 6 South Wh. Frances, c, Illogant 55 3 9 South Wheal Kitty, t, St. Agrees 55	10. 231/4 221/4 25
ully pd. 43 ully pd. 490 ully pd. 1400	2 Spearn Moor, t, Penzance? 45 17 6 8t. Agnes Consols, t* 6 0	9 536 516 536
ec. 1874 1000 94	0 St. David's, * s-i, Holyweil 1 0 0 St. Ives Consols, t, St. Ives 17 12 0	0
ally pd. 1000 ally pd. 600	6 St. Patrick, l, Halkin, Holywell* 10 0 Success, &c., l, Derb. (12,000), called	0 11/1 10
ally pd. 2000 ally pd. 3879	Tamar Consols, s.l. Liften, Devon 1 0 (Tamar Valley, s.l, Beeralston	0 "8t."
ally pd. 14000 ally pd. 12000	O Teign Valley, t, bar., Bridford 10 0 O Trebeigh Consols, s-l, St. Ive 0 18) 1½ 1 1½ \$1000
ly 1372. 5000 dly pd. 1020 dly pd. 547	Treleigh Wood, t, Redruth	8
illy pd. 7500 ar. 1872 2800	Tresellyn, t, Altarnun 3 10 0	% % 1
illy pd. 200	Tucker's Downs, Camborne 200	4 8½ 4 5
illy pd. 20000	Van Console / Llawid Wyn 3 2 6	3% 3% 36 b, b
7010 00000	West Basset, c, Illogant 1 1 0 8	T
13 pol. 12000	W. Eagair Lie / Cand a	Len
0000	West trodolphin, t, c, Breage 1 18 6.	1 % 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

1	NON DIVIDEND	12	2010.
Shar	NON-DIVIDEND MINES_C	ontin	
12000	Wast C. Mines. Pro	d I	st Pr. Clos. Pr.
15000	West Goginan, * Cardiganshire 2	0 0	180 Pr. Clos. P.
10000	West Great Work, t, Breage* 1	0 0	
12000	West Llangynog, s-i, Montgomery 2	0 0	
50000	West Maria & Fortescue, t, c, Lamer. 4 1	0 0	
12000	West Milwr, s.l, Flint.	0 0	* × ×
8000	West Pant-y-Go, s-i, Flint*	0 0	000
1408	West Phoenix, t, Linkinhorne 0 1	8 0	- ***
10000	West Parlicell, t, Dt. Agnes 3	5 0	***
12000	West Roskear, t, s-t, bt, c, Camborne 0	2 0	- ···
2000	West Wheel T 3	0 0	21/2 2 3/4
6000	West Wheel Contract of Manual Contract I	9 6	A 11/
8000	West Wheel Posses 4 Della	0	
292	West Wheel Peters of Bedruin 0 10	0	112"
6000	Wheal Agar a Illamor 63 18	0	30 11/6 11/6 11/6
5000	Wheel Allen # al	0	2 2501%
6000	Wheel Angue 4 Comment I	0	73 %
2500	Wheel Anthon A Cold 0 10	0	***
741	Wheal Resect and Carlly	0	***
6000	Wheal Coates & St Agnes	6	
6000	Wheal Cuchen - Manda de Comment 2	0	
8400	Wheel Emme 4 . Desta	0	814 21 3X
5179	Wheal Granville a Combanding 1 10	0	A 9X
12000	Wheal Jewell a Monada 10 2	6	31/2 23
		0	
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		0	24 2 24
1000			
4096	Wheal Uny, t, c, Redruth 12 13 Wheal Vincent, t, Alternum	0	-
6000	Wheal Vincent, t, Alternum	6	8 21/8
12000	Willoughby, l, Llanrwst 2 10	0	- "
1200	Zennor, t, Cornwall 5 0	0	
	0 0	0	
	IPON AND COLD STATE		
Share	IRON AND COAL COMPAN	NIES	
£100	Abbet Tompany. Paid.	-200	n.
15	Abbot, John, and Co. [L.]	0	L'TICE,

12000 Wheal Jewell, c, Maraxion 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 0 1 1 1 1 1 0 1 1 1 1 1 0 1 1 1 1 1 0 1	81/2 2
3000 Wheal Peevor, t, Redruth	24 2
1000 Wheal Speedwell, t, c, Breage	
6000 Wheal Vincent, t. Alternup	8 94
12000 Willoughby, l, Llanrwst	
5 0 0	
Shares. IRON AND COAL COMPANIES	
Plon Abbet Tolkpuny. Paid.	Price.
15 Albion Steel and Wire Co. [L.] 275 0 0 5 Alltami Colliery Co. [L.] 12 10 0 1	
100 Ashbury Co. [L.]	par 30 14
10 Bagnall, John, and Sons [L.] 90 0 0 3 10 Benhar Coal Co. [L.] 10 0 0 4	30
60 Bilbao Iron Ore Co. [L.]	16 1/4
10 Bilson & Crump Meadow Coll. Co.[L.] 10 0 0 25 Birmingham (Blakeley Hell) Co.[L.] 10 0 0	-
5 Alltami Colliery Co. [L.] 12 10 0 1 100 Ashbury Co. [L.] 5 0 0 100 Bagnall, John, and Sons [L.] 10 0 0 10 Benhar Coal Co. [L.] 10 0 0 10 Benhar Coal Co. [L.] 50 0 0 10 Bilson & Crump Meadow Coll. Co. [L.] 10 0 0 28 Birmingham (Blakeley Hall) [Coal] 28 Birmingham (Blakeley Hall) [Coal] 3 10 0 4 Blaen Cwmbach Coal Co. [L.] 3 20 0 0	-
50 Blaenavon Iron and Steel Co. [L.]	oar 16
100 Roleling W. 100 (12.)	=
50 Bowling Iron Co. [L.]	121/4
50 Britannia Ironworks [L.]	=
100 Brown, John, and Co. [L.] 40 0 0 28	27
20 Cannock and Huntington Coal [L.] 20 0 0 2	6
10 Cardiff & Swansea St. Coal Co. [L.]. 8 0 0	-
	14 7%
	-
50 Chartton Iron Co. [L.]. 40 0 0 24 50 Chatterley Iron Co. [L.]. 40 0 0 24 10 Chatterley Iron Co. [L.]. 40 0 0 12 10 Chillington Iron Co. [L.]. 10 0 0 12 10 Consett Iron Co. [L.]. 1 0 0	'
1 Clee Hill Colliery Co. [L.]	4
1 Compatt 9- 11 2 17 17 17 17 17 17 17 17 17 17 17 17 17	17%
50 Cooke, William, and Co. [L.]	14 16
20 Darlington Iron Co. [L.]	3% 6
32 Ebbw Vale Co. [L.]	15 n
10 Glasgow Port Washington [L.] 8 0 0 5	6
20 Great Western Coai Co. [L.] 17 0 0 9	914
15 Hopkins, Gilkes, and Co. [L.] 2 0 0 10 Ifton Rhyn Colliery Co. [L.] 10 0 0 6	-
10 Ifton Rhyn Colliery Co. [L.]	6 9 d
o Kilian and Three Crosses Colliery [L.] 3 10 0 50 Knowles, Andrew, and Sons [L.] 17 0 0 10 Llay Hali Coal, Iron, & Firebels [L.]	=
5 Littledeen Woodside Coll Co. F. [L.] 10 0 0	par ¾ pr
	22 di
10 Liyavivaliey Col. Co. [L.] 15 p.c. pref. 10 0 0 10 Lydney and Wigpool Iron Ore [L.]. 7 5 0 8	7 4
10 Marbella Iron Ore Co. [L.] 10 0 0 6	534 di
6 Mersey Steel and Iron Co. [L.] 5 0 0	par.
9 Mersey Steel and Iron Co. [L.] 5 0 0 1 0 Midland Iron Co. [L.] 5 0 0 5 5 Mold Argoed Colliery Co. [L.] 5 0 0 1 0 Monkland Iron and Coal Co. [L.] 10 0 0 84 4 Mwyndy Iron Ore [L.] 3 10 0 12 0 Nanty-Glo and Blaina (8 p. c. pref.) 100 0 35 10 Neepsend Rolling Mills (L.) 3 0 0 1 Nerbudda Coal and Iron 3 0 0 1 Nerbudda Coal and Iron 3 0 0	51% pm
10 Monkland Iron and Coal Co. [L.] 10 0 0 63	6 5% die
00 Nant-y-Glo and Blaina (8 p. c. pref.) 100 0 0 35	13% dis
10 Neepsend Rolling Mills [L.]	
90 New Sharleton Calling 17 am	1534 die
10 Northmptn. Coal. Iron & Wagon (T.) 8 0 0	
1 Nortes Cons. Co. 1 C	11/4 die
5 Oxon Iron Ore & Native Ochre Co. [L.] 5 0 0	=
5 Oxon Iron Ore & Native Ochre Co. [L.] 5 0 0 55 Paimer's Shipbuilding and Iron [L.] 25 0 0 13 09 Parkgate Iron Co. [L.]	13 div.
20 Patent Nut and Bolt Co. [L.] 14 0 0 31/2 20 Patent Shaft and Axletree [L.] 10 0 0	
20 Patent Shaft and Axletree [L.] 10 0 0 20 Pelsall Coal and Iron 1 15 0 0 5 50 Phomix Bessemer Co. (L.) 40 0 0	4 dis.
50 Rhymney Iron Co. [L.]	30
10 Richards and Company II. 1	-
00 Sandwell Park Colliery Co. [L.] 100 0 0	40 pm,
Ditto Mew	-
00 Sheepbridge Iron and Coal [L.] KK 0.0 1814	21 pm. 19 pm.xi
	=
0 Skerne Ironworks [L.] 20 0 0	-
0 Somerrostro Iron Co. [L.]	=
O Staveley Iron and Coal Co. [L.] 60 0 0 62	62½ pm.
0 South Cleveland Ironworks [L.] 20 0 0	10% pm.
0 Thames Iron Company	_
6 Titanic Iron and Steel	
5 Ditto B. shares 25 0 0 4	dis. % xd.
0 Ulverston Mining Co. [L.]	1 dis
1 United Bituminous Collieries [L.] 1 0 0 0 Vancouver Coal [L.] 6 0 0 13	13% pm.
0 Vancouver Coal [L.] 6 0 0 13 0 Vickers, Sons, and Co. [L.] 100 0 0 35 0 Weish Ironworks Co. [L.] 50 0 0 5 5 W. Cumberland I. and Steel [L.] 20 0 0 11 0 West Mostry Coal [L.] 20 0 0 11	45 pm.
5 W. Cumberland I. and Steel [L.] 20 0 0 11	9 dk.
West Swansea Colliery Co. [L.] 5 0 0	_
0 Whitehaven Iron Co. [L.] 10 0 0	=

	WAGON COMPA	NIE	18.			
10	Birmingham Wagon Co. [L.]	10			1734	18
20	British Wagon Co. [L.]	10		0	4	4%
10	Gloucester Wagon Co. [L.]	10	0	0	61/	6%
10	North of England Wagon Co. IL 1	3	10	0	par.	1/6
20	Sheffield Wagon Co. [L.]	1.5	0	0	436	8
10	Yorkshire Wagon Co. [L.]	10	0	0	8	4
	TELEGRAPH COMP	AN	IF	is.		
8t."	Anglo-American	100	0	0	53	831/4
10	Brazilian Submarine	10	0	0	614	6%
20	Direct United States Cable	20	0	0	9	916

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" Bt."	Anglo-American	100	0	0	53	5314
10	Brazilian Submarine	10	0	0	614	6%
20	Direct United States Cable	20		0		6% 9% 7% 7%
10	Eastern	10		0		756
10	East. Exten., Australia and China	10		0		7%
10	Great Northern	10		0		934
25	Indo-European	25	0	0	- 1-4	-
10	Mediterranean Extension	10	0	0	234	31/
8	Reuters	8		0	10	10%
" St."	Submarine	100		01		200
10	West India and Panama	10		0		21/6
20	Western and Brazilian	20	0	0	11	12
\$1000	Western Union, 7 per cent. Mort. Bone	ls \$1	00	01	06	108
	MISCELLANEO	US.				

\$1000 Western Union, 7 per cent. Mort. Bone	ds \$	1000	108	108
MISCELLANEO	US.			
25 Copper Miners of Eng. (7 p. c. p. ef.)	25	0 0		-
5 Diamond Rock Boring	4	0 0	1	16
5 Gen. Phos. & Chem. Works Co. [L.]	5	0 0		-
1 Glaisdale Whinstone Quarry	1	0 0	1	11/6
10 Huntington Copper and Sol Co.	9	0 0	7	6%
5 Patent Gunpowder Company	4	0 0	2	1 6
10 Silber Light (ord, sh.)	10	0 0	1	8
10 Tharsis Sulphur and Conner Co.	10	0.0		20
b, blende; a, coai; c, copper; y, goid; t, s-t, silver-lead; t, tin; Limited Liability Companies; t quote have paid dividen	z, zı	1; 8, 81	iver;	si, siali cohanga

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